

ATTACHMENT U-5

TIER 1 EXPOSURE AND RISK WORKBOOKS

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TABLES

Table U.A5-1
Risk Estimates for Plants and Soil Invertebrates in Background Areas

CPEC	Background				
	Soil 95UTL (mg/kg)	Plant Toxicity Value ^a (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	174	500	0.3	330	0.5
Beryllium	0.91	10	0.09	40	0.02
Cadmium	3.2	32	0.1	140	0.02
Chromium	47	1.0	47	0.40	118
Cobalt	20	13	2	50	0.4
Copper	19	70	0.3	80	0.2
Total Cyanide	No Data	--	--	0.90	--
Lead	12	120	0.1	1700	0.007
Manganese	330	220	2	450	0.7
Mercury	0.026	0.30	0.09	0.10	0.3
Molybdenum	10	2.0	5	40	0.3
Nickel	49	38	1	280	0.2
Selenium	3.3	1.0	3	70	0.05
Thallium	0.64	1.0	0.6	1.0	0.6
Tin	65	50	1	50	1
Vanadium	81	2.0	41	1.6	51
Zinc	104	50	2	100	1

CPEC = Constituent of Potential Ecological Concern

HQ = Hazard Quotient (unitless)

NA = Not Applicable

EPC = Exposure Point Concentration

No Data = CPEC was not analyzed in the sample

-- = in TRV column, compound not a CPEC in the matrix, or Screening Level not available. In HQ column, HQ not calculated.

95UTL = 95 percent upper threshold limit.

Soil is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

Table U.A5-2
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Background Areas

CPEC	Background				
	95UTL Sediment (mg/kg)	Selected Low Screening Value ^a (mg/kg)	HQ (unitless)	Selected High Screening Value ^a (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	174	--	--	--	--
Chromium	47	43	1	111	0.4
Manganese	330	460	0.7	1100	0.3
Mercury	0.026	0.18	0.1	1.1	0.02
Molybdenum	10	--	--	--	--
Selenium	3.3	2.5	1	4.0	0.8
Thallium	0.64	--	--	--	--
Tin	65	--	--	--	--

CPEC = Constituent of Potential Ecological Concern

HQ = Hazard Quotient (unitless)

NA = Not Applicable

EPC = Exposure Point Concentration

No Data = CPEC was not analyzed in the sample

-- = in TRV column, compound not a CPEC in the matrix, or Screening Level not available. In HQ column, HQ not calculated.

95UTL = 95 percent upper threshold limit.

Sediment is surface values (0-0.5 feet below ground surface [bgs]).

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^a The sediment CPECs cadmium, copper, lead, nickel, and zinc were evaluated separately using Simultaneously Extracted Metals- Acid Volatile Sulfide (SEM-AVS) methodologies. AVS concentrations exceeded SEM concentrations for these CPECs indicating that the metals are bound to AVS and not available to aquatic receptors. Consequently, these CPECs are not included in this risk estimation.

Table U.A5-3
Background Area Exposure Point Concentrations for Wildlife
Based on 95% Upper Tolerance Level Concentrations

CPEC	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)	Sediment ^a	Aquatic Invertebrates
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics								
Barium	174	174	27	16	0.12	0.20	174	206
Beryllium	0.91	0.91	0.55	0.041	0.0020	0.027	0.91	1.1
Cadmium	3.2	3.2	1.2	21	0.49	0.49	3.2	9.8
Chromium	47	47	1.9	14	3.9	3.9	47	22
Cobalt	20	20	0.15	2.4	0.58	0.58	20	24
Copper	19	19	6.2	9.8	12	12	19	28
Lead	12	12	1.1	5.9	3.2	3.2	12	0.79
Manganese	330	330	26	23	6.8	6.8	330	391
Mercury	0.026	0.026	0.052	0.27	0.0014	0.0014	0.026	0.030
Molybdenum	10	10	44	1.7	0.50	13	10	12
Nickel	49	49	2.0	--	4.8	4.8	49	5.4
Selenium	3.3	3.3	1.9	2.2	1.0	1.0	3.3	3.9
Thallium	0.64	0.64	0.0026	0.16	0.072	0.072	0.64	0.76
Tin	65	65	13	11	0.55	0.65	65	77
Vanadium	81	81	0.39	3.4	1.0	1.0	81	0.0
Zinc	104	104	63	392	109	109	104	139
Dioxins/Furans								
Total Avian Dioxin TEQ	1.60E-05	1.60E-05	8.96E-08	7.34E-05	1.20E-05	1.20E-05	1.60E-05	4.48E-05
Total Mammalian Dioxin TEQ	1.30E-05	1.30E-05	7.28E-08	5.74E-05	9.57E-06	9.57E-06	1.30E-05	3.64E-05

CPEC = Constituent of Potential Ecological Concern

95% UTL = 95% Upper Tolerance Level Concentration

ft bgs = feet below ground surface

HMW = High Molecular Weight

LMW = Low Molecular Weight

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

PCB = Polychlorinated Biphenyl

TEQ = Toxic Equivalent; Total TEQ = Total PCB TEQ + Total Dioxin TEQ

-- = No Bioaccumulation Factor; EPC not calculated.

mg/kg, dw = milligrams per kilogram, dry weight

mg/L = milligrams per liter

^aSediment is surface values (0-0.5 ft. bgs)

Table U.A5-4
Dose Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentration

CPEC	Terrestrial Invertivorous Mammal		Terrestrial Herbivorous		Terrestrial Carnivorous		Terrestrial Invertivorous & Herbivorous Bird			Terrestrial Carnivorous	
	Ornate Shrew		California Vole		Striped Skunk		Western Meadowlark			American Kestrel	
	SubsurfaceSoil ^a	Soil Invertebrates	SubsurfaceSoil ^b	Vegetation	SubsurfaceSoil ^a	Mammals	Surface Soil ^b	Soil Invertebrates	Vegetation	Surface Soil ^b	Mammals
	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)	(mg/kg-d)
Inorganics											
Barium	6.4	4.5	0.67	4.3	0.59	0.0076	5.7	5.2	8.9	0.34	0.040
Beryllium	0.033	0.012	0.0035	0.087	0.0031	0.0010	0.030	0.013	0.18	0.0018	0.0054
Cadmium	0.12	5.9	0.012	0.19	0.011	0.018	0.11	6.9	0.39	0.0063	0.098
Chromium	1.7	4.1	0.18	0.31	0.16	0.15	1.5	4.7	0.63	0.093	0.78
Cobalt	0.73	0.69	0.077	0.024	0.067	0.022	0.66	0.80	0.049	0.040	0.11
Copper	0.70	2.8	0.073	0.99	0.064	0.44	0.62	3.2	2.0	0.038	2.3
Lead	0.44	1.7	0.046	0.17	0.040	0.12	0.39	1.9	0.35	0.024	0.64
Manganese	12	6.5	1.3	4.1	1.1	0.25	11	7.6	8.6	0.65	1.3
Mercury	0.00095	0.076	0.00010	0.0083	0.000088	0.000053	0.00085	0.089	0.017	0.000051	0.00028
Molybdenum	0.37	0.47	0.038	7.0	0.034	0.50	0.33	0.55	15	0.020	2.6
Nickel	1.8	--	0.19	0.32	0.16	0.18	1.6	--	0.65	0.097	0.95
Selenium	0.12	0.63	0.013	0.30	0.011	0.039	0.11	0.73	0.62	0.0065	0.20
Thallium	0.023	0.046	0.0025	0.0041	0.0022	0.0027	0.021	0.054	0.00084	0.0013	0.014
Tin	2.4	3.1	0.25	2.1	0.22	0.024	2.1	3.6	4.3	0.13	0.13
Vanadium	3.0	0.96	0.31	0.062	0.27	0.037	2.7	1.1	0.13	0.16	0.20
Zinc	3.8	111	0.40	10	0.35	4.1	3.4	129	21	0.21	22
Dioxins/Furans											
Total Avian Dioxin TEQ	5.86E-07	2.07E-05	6.15E-08	1.42E-08	5.39E-08	4.50E-07	5.26E-07	2.41E-05	2.94E-08	3.17E-08	2.38E-06
Total Mammalian Dioxin TEQ	4.76E-07	1.62E-05	4.99E-08	1.16E-08	4.38E-08	3.58E-07	4.27E-07	1.89E-05	2.39E-08	2.57E-08	1.90E-06

Table U.A5-4
Dose Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentration

CPEC	Aquatic Invertivorous Bird (Wading Bird)			Aquatic Invertivorous Bird (Duck)			Aquatic Invertivorous Mammal		
	Killdeer			Mallard			Raccoon		
	Sediment ^b (mg/kg-d)	Surface Water (mg/kg-d)	Aquatic Invertebrates (mg/kg-d)	Sediment ^b (mg/kg-d)	Surface Water (mg/kg-d)	Aquatic Invertebrates (mg/kg-d)	Sediment ^b (mg/kg-d)	Surface Water (mg/kg-d)	Aquatic Invertebrates (mg/kg-d)
	Inorganics								
Barium	10	--	40	0.35	--	14	0.54	--	7.2
Beryllium	0.053	--	0.21	0.0018	--	0.072	0.0028	--	0.037
Cadmium	0.19	--	1.9	0.0064	--	0.65	0.010	--	0.34
Chromium	2.7	--	4.3	0.094	--	1.5	0.15	--	0.76
Cobalt	1.2	--	4.6	0.040	--	1.6	0.062	--	0.82
Copper	1.1	--	5.4	0.038	--	1.8	0.059	--	0.96
Lead	0.70	--	0.15	0.024	--	0.052	0.037	--	0.027
Manganese	19	--	76	0.66	--	26	1.0	--	14
Mercury	0.0015	--	0.0058	0.000052	--	0.0020	0.000081	--	0.0010
Molybdenum	0.58	--	2.3	0.020	--	0.79	0.031	--	0.41
Nickel	2.9	--	1.1	0.098	--	0.36	0.15	--	0.19
Selenium	0.19	--	0.76	0.0066	--	0.26	0.010	--	0.14
Thallium	0.037	--	0.15	0.0013	--	0.050	0.0020	--	0.026
Tin	3.8	--	15	0.13	--	5.1	0.20	--	2.7
Vanadium	4.7	--	0.0	0.16	--	0.0	0.25	--	0.0
Zinc	6.1	--	27	0.21	--	9.3	0.32	--	4.8
Dioxins/Furans									
Total Avian Dioxin TEQ	9.36E-07	--	8.73E-06	3.19E-08	--	2.98E-06	4.99E-08	--	1.55E-06
Total Mammalian Dioxin TEQ	7.60E-07	--	7.10E-06	2.59E-08	--	2.42E-06	4.05E-08	--	1.26E-06

Table U.A5-4
 Dose Estimates for Wildlife in Background Areas
 95% Upper Tolerance Level Concentration

CPEC = Constituent of Potential Ecological Concern

mg/kg-d = milligrams per kilogram per day

TEQ = Toxic Equivalent

"--" = No Data; CPEC was not analyzed in the samples.

An intake value a.) CPEC was not detected in the onsite media. Offsite detections resulted in inclusion of the compound if the frequency of detection was >5%.

b.) Compound was not a CPEC in the matrix.

c.) No bioaccumulation, resulting in intake = 0 (prey and vegetation only)

^a For non-burrowing receptors, surface soil (0-0.5 feet below ground surface) exposure point concentrations were used.

Dose Calculations:

Soil Intake (mg/kg-bw/day) = (Soil EPC (mg/kg dw) * SIR (kg/day dw))

Prey Intake (mg/kg-bw/day) = (Soil EPC (mg/kg dw) * BAF * FIR (kg/day dw) * fp)

Water intake (mg/kg-bw/day) = (Surface water EPC (mg/L) * WIR (L/kg-bw/day))

Where:

BAF = Bioaccumulation Factor kg = kilograms.

dw = Dry weight. kg/day = kilogram per day.

EPC = Exposure point concentration mg/kg = Milligrams per kilogram.

FIR = Food ingestion rate mg/kg-bw/day = Milligrams per kilogram body weight per day.

fp = fraction of prey in diet. mg/L = Milligrams per liter

SIR = Soil ingestion rate (i.e., FIR * fs) L/kg-bw/day = liters per kilogram body weight per day

Table U.A5-5
Risk Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentrations

CPEC	Terrestrial Invertivorous Mammal		Terrestrial Herbivorous Mammal		Terrestrial Carnivorous Mammal		Terrestrial Invertivorous Bird		Terrestrial Herbivorous Bird		Terrestrial Carnivorous Bird	
	Ornate Shrew		California Vole		Striped Skunk		Western Meadowlark		Western Meadowlark		American Kestrel	
	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics												
Barium	0.09	0.2	0.04	0.1	0.005	0.01	0.3	0.5	0.4	0.7	0.009	0.02
Beryllium	0.07	0.08	0.1	0.2	0.006	0.008	--	--	--	--	--	--
Cadmium	0.8	8	0.03	0.3	0.004	0.04	1	5	0.08	0.3	0.02	0.07
Chromium	0.6	2	0.05	0.2	0.03	0.1	2	2	0.8	0.8	0.3	0.3
Cobalt	0.07	0.2	0.005	0.01	0.005	0.01	0.1	0.2	0.06	0.09	0.01	0.02
Copper	0.4	0.6	0.1	0.2	0.05	0.09	0.3	0.9	0.2	0.7	0.2	0.6
Lead	0.2	0.4	0.02	0.05	0.02	0.03	0.7	1	0.2	0.5	0.2	0.4
Manganese	0.1	0.4	0.04	0.1	0.009	0.03	0.05	0.1	0.05	0.1	0.005	0.01
Mercury	0.02	0.3	0.002	0.03	0.00004	0.0006	0.5	2	0.1	0.5	0.002	0.008
Molybdenum	0.3	3	3	27	0.2	2	0.02	0.3	0.4	4	0.07	0.8
Nickel	0.5	1	0.1	0.3	0.1	0.2	0.08	0.2	0.1	0.3	0.05	0.2
Selenium	0.6	15	0.3	6	0.04	1	0.9	4	0.8	3	0.2	0.9
Thallium	0.05	0.1	0.002	0.006	0.003	0.01	0.02	0.2	0.006	0.06	0.004	0.04
Tin	0.1	0.2	0.06	0.09	0.006	0.01	0.3	0.8	0.4	0.9	0.02	0.04
Vanadium	0.5	0.9	0.04	0.09	0.04	0.07	5	11	4	8	0.5	1
Zinc	0.3	12	0.03	1	0.01	0.5	0.8	8	0.1	1	0.1	1
Dioxins/Furans												
Total Avian Dioxin TEQ	--	--	--	--	--	--	0.2	2	0.004	0.04	0.02	0.2
Total Mammalian Dioxin TEQ	2	17	0.006	0.06	0.04	0.4	--	--	--	--	--	--

CPEC = Constituent of Potential Ecological Concern

High HQ = Hazard Quotient based on NOAEL-based toxicity reference value.

HQ = Hazard Quotient (unitless) = Sum of Intakes (mg/kg-d) / Toxicity Reference Value (mg/kg-d)

Low HQ = Hazard Quotient based on LOAEL-based toxicity reference value.

TEQ = Toxic Equivalent

-- = No HQ calculated because no toxicity reference value available or compound was not a CPEC in the matrix.

HQ > 1

Table U.A5-5
Risk Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentrations

CPEC	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Barium	1	2	0.3	0.7	0.06	0.1
Beryllium	--	--	--	--	0.06	0.08
Cadmium	0.4	1	0.1	0.4	0.05	0.5
Chromium	3	3	0.6	0.6	0.09	0.4
Cobalt	0.5	0.8	0.1	0.2	0.05	0.1
Copper	0.5	2	0.2	0.5	0.1	0.2
Lead	0.3	0.5	0.02	0.05	0.007	0.01
Manganese	0.3	0.5	0.07	0.1	0.1	0.3
Mercury	0.04	0.2	0.01	0.05	0.0003	0.004
Molybdenum	0.08	0.8	0.02	0.2	0.2	2
Nickel	0.2	0.6	0.02	0.07	0.1	0.2
Selenium	1	4	0.3	1	0.1	3
Thallium	0.05	0.5	0.01	0.1	0.02	0.06
Tin	1	3	0.3	0.8	0.08	0.1
Vanadium	7	14	0.2	0.5	0.03	0.06
Zinc	0.2	2	0.06	0.6	0.01	0.5
Dioxins/Furans						
Total Avian Dioxin TEQ	0.07	0.7	0.02	0.2	--	--
Total Mammalian Dioxin TEQ	--	--	--	--	0.1	1

CPEC = Constituent of Potential Ecological Concern

High HQ = Hazard Quotient based on NOAEL-based toxicity reference value.

HQ = Hazard Quotient (unitless)

HQ = Sum of Intakes (mg/kg-d) / Toxicity Reference Value (mg/kg-d)

Low HQ = Hazard Quotient based on LOAEL-based toxicity reference value.

TEQ = Toxic Equivalent

-- = No HQ calculated because no toxicity reference value available or compound was not a CPEC in the matrix.

HQ > 1

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

CPEC	Sitewide with Pond 18 and Pond A-5				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	12000	500	24	330	36
Beryllium	0.84	10	0.08	40	0.02
Cadmium	34	32	1	140	0.2
Chromium	670	1.0	670	0.40	1675
Cobalt	160	13	12	50	3
Copper	480	70	7	80	6
Total Cyanide	9.8	--	--	0.90	11
Lead	970	120	8	1700	0.6
Manganese	1500	220	7	450	3
Mercury	0.43	0.30	1	0.10	4
Molybdenum	15	2.0	8	40	0.4
Nickel	240	38	6	280	0.9
Selenium	15	1.0	15	70	0.2
Thallium	2.1	1.0	2	1.0	2
Tin	77	50	2	50	2
Vanadium	51	2.0	26	1.6	32
Zinc	710	50	14	100	7
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.084	--	--	--	--
Dalapon	0.28	--	--	--	--
MCPA	7.0	--	--	--	--
MCPP	1400	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.71	20	0.04	5.0	0.1
Anthracene	0.33	10	0.03	5.0	0.07
Benzo(a)anthracene	0.19	1.2	0.2	1.0	0.2
Benzo(a)pyrene	0.51	1.2	0.4	1.0	0.5
Benzo(b)fluoranthene	0.057	1.2	0.05	1.0	0.06
Benzo(g,h,i)perylene	0.21	1.2	0.2	1.0	0.2
Benzo(k)fluoranthene	0.55	1.2	0.5	1.0	0.6
Chrysene	0.95	1.2	0.8	1.0	1
Fluoranthene	0.57	1.2	0.5	1.0	0.6
Fluorene	2.2	10	0.2	5.0	0.4
Indeno(1,2,3-c,d)pyrene	0.045	1.2	0.04	1.0	0.05
Naphthalene	1.2	10	0.1	5.0	0.2
Pyrene	0.78	1.2	0.7	10	0.08
Total LMW PAH	4.4	10	0.4	5.0	0.9
Total HMW PAH	3.9	1.2	3	1.0	4
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	3.7	40	0.09	1.0	4
Sum of PCB Congeners	2.1	40	0.05	1.0	2

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

CPEC	Sitewide with Pond 18 and Pond A-5				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Pesticides					
4,4'-DDE	0.031	0.90	0.03	0.10	0.3
4,4'-DDT	3.1	0.90	3	0.10	31
Total DDT	No Data	--	3	--	31
Hexachlorobenzene	3.1	100	0.03	2.0	2
Methoxychlor	0.059	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	29	200	0.1	200	0.1
Diethylphthalate	20	100	0.2	200	0.1
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	1.5	--	--	5.0	0.3
1,1-Dichloroethane	0.46	--	--	5.0	0.09
1,1-Dichloroethylene	0.019	100	0.0002	5.0	0.004
1,2-Dichloroethene	0.11	--	--	5.0	0.02
Acetone	1.1	--	--	--	--
Acetonitrile	0.19	--	--	--	--
Acrolein	0.017	--	--	--	--
Benzene	0.027	--	--	0.50	0.05
Carbon disulfide	0.10	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Isopropanol	0.087	10	0.009	--	--
Methyl ethyl ketone	0.36	--	--	--	--
Methylene chloride	0.26	--	--	2.0	0.1
Propanal	1.3	--	--	--	--
Tert-Butyl alcohol (TBA)	0.040	--	--	--	--
Tetrachloroethylene	3.4	100	0.03	0.20	17
Tetrahydrofuran	0.0081	--	--	4.0	0.002
Toluene	0.0050	200	0.00003	3.0	0.002
Trichloroethylene	24	--	--	0.010	2400

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

CPEC	Sitewide Without Ponds				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	12000	500	24	330	36
Beryllium	0.84	10	0.08	40	0.02
Cadmium	34	32	1	140	0.2
Chromium	670	1.0	670	0.40	1675
Cobalt	160	13	12	50	3
Copper	480	70	7	80	6
Total Cyanide	9.8	--	--	0.90	11
Lead	970	120	8	1700	0.6
Manganese	1500	220	7	450	3
Mercury	0.43	0.30	1	0.10	4
Molybdenum	11	2.0	6	40	0.3
Nickel	240	38	6	280	0.9
Selenium	11	1.0	11	70	0.2
Thallium	2.1	1.0	2	1.0	2
Tin	77	50	2	50	2
Vanadium	51	2.0	26	1.6	32
Zinc	710	50	14	100	7
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.084	--	--	--	--
Dalapon	0.28	--	--	--	--
MCPA	7.0	--	--	--	--
MCPP	1400	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.71	20	0.04	5.0	0.1
Anthracene	0.33	10	0.03	5.0	0.07
Benzo(a)anthracene	0.19	1.2	0.2	1.0	0.2
Benzo(a)pyrene	0.51	1.2	0.4	1.0	0.5
Benzo(b)fluoranthene	0.057	1.2	0.05	1.0	0.06
Benzo(g,h,i)perylene	0.21	1.2	0.2	1.0	0.2
Benzo(k)fluoranthene	0.55	1.2	0.5	1.0	0.6
Chrysene	0.95	1.2	0.8	1.0	1
Fluoranthene	0.57	1.2	0.5	1.0	0.6
Fluorene	2.2	10	0.2	5.0	0.4
Indeno(1,2,3-c,d)pyrene	0.045	1.2	0.04	1.0	0.05
Naphthalene	1.2	10	0.1	5.0	0.2
Pyrene	0.78	1.2	0.7	10	0.08
Total LMW PAH	4.4	10	0.4	5.0	0.9
Total HMW PAH	3.9	1.2	3	1.0	4
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	3.7	40	0.09	1.0	4
Sum of PCB Congeners	2.1	40	0.05	1.0	2

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

CPEC	Sitewide Without Ponds				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Pesticides					
4,4'-DDE	0.031	0.90	0.03	0.10	0.3
4,4'-DDT	3.1	0.90	3	0.10	31
Total DDT	No Data	--	3	--	31
Hexachlorobenzene	3.1	100	0.03	2.0	2
Methoxychlor	0.059	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	29	200	0.1	200	0.1
Diethylphthalate	20	100	0.2	200	0.1
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	1.5	--	--	5.0	0.3
1,1-Dichloroethane	0.46	--	--	5.0	0.09
1,1-Dichloroethylene	0.019	100	0.0002	5.0	0.004
1,2-Dichloroethene	0.11	--	--	5.0	0.02
Acetone	1.1	--	--	--	--
Acetonitrile	0.19	--	--	--	--
Acrolein	0.017	--	--	--	--
Benzene	0.0051	--	--	0.50	0.01
Carbon disulfide	0.10	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Isopropanol	0.087	10	0.009	--	--
Methyl ethyl ketone	0.36	--	--	--	--
Methylene chloride	0.26	--	--	2.0	0.1
Propanal	1.3	--	--	--	--
Tert-Butyl alcohol (TBA)	0.040	--	--	--	--
Tetrachloroethylene	3.4	100	0.03	0.20	17
Tetrahydrofuran	0.0081	--	--	4.0	0.002
Toluene	0.0050	200	0.00003	3.0	0.002
Trichloroethylene	24	--	--	0.010	2400

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

HMW = High Molecular Weight

HQ = Hazard Quotient (unitless)

LMW = Low Molecular Weight

Total DDT = Sum of DDD, DDE, DDT

Total HMW PAH = Sum of the HMW PAH

Total LMW PAH = Sum of the LMW PAH

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

"--" = in Screening Value column, compound not a CPEC in the matrix, or Screening Value not available. In HQ column, HQ not calculated.

A soil value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

Soil is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^aSoil is surface values (0-0.5 feet below ground surface [bgs]).

^b From Table U5-1 of the ERA (Appendix U) and Attachment 2.

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	RCRA Canyon				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	12000	500	24	330	36
Beryllium	0.74	10	0.08	40	0.02
Cadmium	24	32	0.8	140	0.2
Chromium	470	1	470	0.4	1175
Cobalt	40	13	12	50	0.8
Copper	320	70	5	80	4
Total Cyanide	No Data	--	--	0.9	--
Lead	140	120	1	1700	0.08
Manganese	1500	220	23	450	3
Mercury	0.39	0.3	1	0.1	4
Molybdenum	4.8	2	8	40	0.1
Nickel	170	38	4	280	0.6
Selenium	5.6	1	6	70	0.08
Thallium	0.64	1	1	1	0.6
Tin	77	50	2	50	2
Vanadium	46	2	23	2	29
Zinc	710	50	14	100	7
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	--	--	--	--
Dalapon	No Data	--	--	--	--
MCPA	No Data	--	--	--	--
MCPP	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.079	20	0.004	5	0
Anthracene	0.013	10	0.001	5	0.003
Benzo(a)anthracene	0.010	1	0.008	1	0
Benzo(a)pyrene	0.067	1	0.06	1	0.07
Benzo(b)fluoranthene	0.012	1	0.01	1	0.004
Benzo(g,h,i)perylene	0.043	1	0.04	1	0.04
Benzo(k)fluoranthene	0.0094	1	0.008	1	0.009
Chrysene	0.034	1	0.03	1	0.02
Fluoranthene	0.014	1	0.01	1	0.002
Fluorene	0.10	10	0.01	5	0
Indeno(1,2,3-c,d)pyrene	0.010	1	0.008	1	0.005
Naphthalene	0.017	10	0.002	5	0.003
Pyrene	0.083	1	0.07	10	0.008
Total LMW PAH	0.21	10	0.02	5	0.006
Total HMW PAH	0.28	1	0.2	1	0.2
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.096	40	0.002	1	0.1
Sum of PCB Congeners	0.012	40	0.0003	1	0.01
Pesticides					
4,4'-DDE	0.0047	0.9	0.005	0.1	0.05
4,4'-DDT	0.0061	0.9	0.007	0.1	0.06
Total DDT	No Data	--	0.01	--	--
Hexachlorobenzene	0.0025	100	0.00003	2	0.001
Methoxychlor	0.0071	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	RCRA Canyon				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.34	200	0.002	200	0.002
Diethylphthalate	0.91	100	0.009	200	0.001
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0019	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.0020	--	--	5	0
Acetone	No Data	--	--	--	--
Acetonitrile	No Data	--	--	--	--
Acrolein	No Data	--	--	--	--
Benzene	0.0018	--	--	0.5	0.004
Carbon disulfide	0.11	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Isopropanol	No Data	10	--	--	--
Methyl ethyl ketone	No Data	--	--	--	--
Methylene chloride	0.0019	--	--	2	0.0008
Propanal	0.071	--	--	--	--
Tert-Butyl alcohol (TBA)	No Data	--	--	--	--
Tetrachloroethylene	0.0	100	0	0.2	0
Tetrahydrofuran	0.0057	--	--	4	0.001
Toluene	0.0026	200	0.00001	3	0
Trichloroethylene	0.013	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	No Data	10	--	5	--
Pesticides					
4,4'-DDD	No Data	0.9	--	0.1	--
Aldrin	No Data	1	--	0.5	--
alpha-BHC	No Data	10	--	0.03	--
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	0.0037	1	0.004	0.5	0.007
Endosulfan I	0.0030	10	0.0003	0.05	0.06
Endrin	No Data	--	--	0.01	--
Heptachlor epoxide	No Data	1	--	0.007	--
Mirex	No Data	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	No Data	--	--	--	--
Di-n-butylphthalate	0.43	200	0.002	200	0.002
N-Nitrosodimethylamine	No Data	--	--	20	--
N-Nitrosodipropylamine	No Data	--	--	20	--
N-Nitrosomethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	No Data	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Liquid Treatment Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	330	500	0.7	330	1
Beryllium	0.62	10	0.06	40	0.02
Cadmium	34	32	1	140	0.2
Chromium	68	1	68	0.4	170
Cobalt	18	13	1	50	0.4
Copper	96	70	1	80	1
Total Cyanide	9.8	--	--	0.9	11
Lead	41	120	0.3	1700	0.02
Manganese	450	220	6	450	1
Mercury	0.065	0.3	0.2	0.1	0.7
Molybdenum	6.9	2	4	40	0.2
Nickel	49	38	2	280	0.2
Selenium	1.7	1	3	70	0.02
Thallium	0.49	1	1	1	0.5
Tin	72	50	1	50	1
Vanadium	46	2	70	2	29
Zinc	280	50	6	100	3
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.076	--	--	--	--
Dalapon	0.068	--	--	--	--
MCPA	19	--	--	--	--
MCPP	1400	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.051	20	0.003	5	0.01
Anthracene	0.0089	10	0.0009	5	0.002
Benzo(a)anthracene	0.0067	1	0.006	1	0.007
Benzo(a)pyrene	0.0078	1	0.007	1	0.008
Benzo(b)fluoranthene	0.0093	1	0.008	1	0.009
Benzo(g,h,i)perylene	0.0034	1	0.003	1	0.003
Benzo(k)fluoranthene	0.0045	1	0.004	1	0.005
Chrysene	0.032	1	0.03	1	0.03
Fluoranthene	0.011	1	0.009	1	0.01
Fluorene	0.0	10	0	5	0
Indeno(1,2,3-c,d)pyrene	0.0027	1	0.002	1	0.003
Naphthalene	0.0078	10	0.0008	5	0.002
Pyrene	0.031	1	0.03	10	0.003
Total LMW PAH	0.068	10	0.007	5	0.01
Total HMW PAH	0.11	1	0.09	1	0.1
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	40	0	1	0
Sum of PCB Congeners	0.0069	40	0.0002	1	0.007
Pesticides					
4,4'-DDE	0.0022	0.9	0.002	0.1	0.02
4,4'-DDT	3.1	0.9	3	0.1	31
Total DDT	No Data	--	3	--	--
Hexachlorobenzene	3.1	100	0.03	2	2
Methoxychlor	0.0	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Liquid Treatment Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	1.7	200	0.009	200	0.009
Diethylphthalate	0.37	100	0.004	200	0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0017	--	--	5	0
1,1-Dichloroethane	0.0025	--	--	5	0.0005
1,1-Dichloroethylene	0.037	100	0.0004	5	0
1,2-Dichloroethene	0.016	--	--	5	0.003
Acetone	0.20	--	--	--	--
Acetonitrile	0.19	--	--	--	--
Acrolein	0.0042	--	--	--	--
Benzene	0.0044	--	--	0.5	0.005
Carbon disulfide	0.011	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	1.4	--	--	--	--
Isopropanol	0.0	10	0	--	--
Methyl ethyl ketone	0.0082	--	--	--	--
Methylene chloride	0.0	--	--	2	0
Propanal	0.0	--	--	--	--
Tert-Butyl alcohol (TBA)	0.060	--	--	--	--
Tetrachloroethylene	0.067	100	0.0007	0.2	0.2
Tetrahydrofuran	0.15	--	--	4	0
Toluene	0.0032	200	0.00002	3	0.001
Trichloroethylene	0.0038	--	--	0.01	0.4
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	0.057	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	No Data	10	--	5	--
Pesticides					
4,4'-DDD	No Data	0.9	--	0.1	--
Aldrin	No Data	1	--	0.5	--
alpha-BHC	No Data	10	--	0.03	--
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	No Data	1	--	0.5	--
Endosulfan I	No Data	10	--	0.05	--
Endrin	No Data	--	--	0.01	--
Heptachlor epoxide	No Data	1	--	0.007	--
Mirex	0.58	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	No Data	--	--	--	--
Di-n-butylphthalate	No Data	200	--	200	--
N-Nitrosodimethylamine	No Data	--	--	20	--
N-Nitrosodipropylamine	No Data	--	--	20	--
N-Nitrosomethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	No Data	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	West Canyon Spray Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	280	500	0.6	330	0.8
Beryllium	0.72	10	0.07	40	0.02
Cadmium	20	32	0.6	140	0.1
Chromium	670	1	670	0.4	1675
Cobalt	160	13	12	50	3
Copper	480	70	7	80	6
Total Cyanide	No Data	--	--	0.9	--
Lead	60	120	0.5	1700	0.04
Manganese	1200	220	5	450	3
Mercury	0.092	0.3	0.3	0.1	0.9
Molybdenum	5.3	2	4	40	0.1
Nickel	240	38	6	280	0.9
Selenium	1.7	1	2	70	0.02
Thallium	0.52	1	1	1	0.5
Tin	72	50	1	50	1
Vanadium	38	2	19	2	24
Zinc	450	50	9	100	5
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	--	--	--	--
Dalapon	No Data	--	--	--	--
MCPA	No Data	--	--	--	--
MCPP	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	20	0	5	0
Anthracene	0.0	10	0	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0044	1	0.004	1	0
Benzo(b)fluoranthene	0.0043	1	0.004	1	0.004
Benzo(g,h,i)perylene	0.014	1	0.01	1	0.008
Benzo(k)fluoranthene	0.0059	1	0.005	1	0
Chrysene	0.0054	1	0.005	1	0.005
Fluoranthene	0.0	1	0	1	0
Fluorene	0.0	10	0	5	0
Indeno(1,2,3-c,d)pyrene	0.012	1	0.01	1	0.004
Naphthalene	0.010	10	0.001	5	0.002
Pyrene	0.0033	1	0.003	10	0.0003
Total LMW PAH	0.010	10	0.001	5	0.002
Total HMW PAH	0.049	1	0.04	1	0.02
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.026	40	0.0007	1	0.03
Sum of PCB Congeners	0.0052	40	0.0001	1	0.005
Pesticides					
4,4'-DDE	0.0020	0.9	0.002	0.1	0.02
4,4'-DDT	0.0057	0.9	0.006	0.1	0.06
Total DDT	No Data	--	0.009	--	--
Hexachlorobenzene	0.0	100	0	2	0
Methoxychlor	0.0024	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	West Canyon Spray Area					HQ (unitless)
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)	
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0	
Diethylphthalate	2.0	100	0.02	200	0.01	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	0.0	--	--	5	0	
1,1-Dichloroethane	0.0	--	--	5	0	
1,1-Dichloroethylene	0.0	100	0	5	0	
1,2-Dichloroethene	0.0	--	--	5	0	
Acetone	No Data	--	--	--	--	
Acetonitrile	No Data	--	--	--	--	
Acrolein	No Data	--	--	--	--	
Benzene	0.0018	--	--	0.5	0.004	
Carbon disulfide	0.044	--	--	--	--	
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0072	--	--	--	--	
Isopropanol	No Data	10	--	--	--	
Methyl ethyl ketone	No Data	--	--	--	--	
Methylene chloride	0.0015	--	--	2	0.0006	
Propanal	0.25	--	--	--	--	
Tert-Butyl alcohol (TBA)	No Data	--	--	--	--	
Tetrachloroethylene	0.10	100	0.001	0.2	0.01	
Tetrahydrofuran	0.0081	--	--	4	0.002	
Toluene	0.0	200	0	3	0	
Trichloroethylene	0.0	--	--	0.01	0	
Area CPEC						
Herbicides						
2,4,5-TP (Silvex)	No Data	--	--	--	--	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	No Data	10	--	5	--	
Pesticides						
4,4'-DDD	No Data	0.9	--	0.1	--	
Aldrin	No Data	1	--	0.5	--	
alpha-BHC	No Data	10	--	0.03	--	
Chlordane, gamma	0.0045	0.2	0.02	0.04	0.1	
delta-BHC	0.0035	10	0.0004	0.03	0.1	
Dieldrin	No Data	1	--	0.5	--	
Endosulfan I	No Data	10	--	0.05	--	
Endrin	No Data	--	--	0.01	--	
Heptachlor epoxide	No Data	1	--	0.007	--	
Mirex	No Data	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	No Data	--	--	--	--	
Di-n-butylphthalate	No Data	200	--	200	--	
N-Nitrosodimethylamine	No Data	--	--	20	--	
N-Nitrosodipropylamine	No Data	--	--	20	--	
N-Nitrosomethylamine	No Data	--	--	20	--	
N-Nitrosopyrrolidine	No Data	--	--	--	--	

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Burial Trench Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	320	500	0.6	330	1
Beryllium	0.73	10	0.1	40	0.02
Cadmium	2.2	32	0.07	140	0.02
Chromium	48	1	270	0.4	120
Cobalt	8.2	13	0.6	50	0.2
Copper	23	70	1	80	0.3
Total Cyanide	0.0	--	--	0.9	0
Lead	14	120	0.1	1700	0.008
Manganese	670	220	3	450	1
Mercury	0.030	0.3	0.1	0.1	0.3
Molybdenum	5.1	2	3	40	0.1
Nickel	53	38	2	280	0.2
Selenium	11	1	11	70	0.2
Thallium	0.45	1	0.5	1	0.5
Tin	51	50	1	50	1
Vanadium	47	2	24	2	30
Zinc	97	50	2	100	1
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	--	--	--	--
Dalapon	0.084	--	--	--	--
MCPA	0.71	--	--	--	--
MCPP	1.1	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.055	20	0.003	5	0
Anthracene	0.069	10	0.007	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0	1	0	1	0
Benzo(b)fluoranthene	0.32	1	0.3	1	0
Benzo(g,h,i)perylene	0.0045	1	0.004	1	0.005
Benzo(k)fluoranthene	0.0	1	0	1	0
Chrysene	0.87	1	0.7	1	0.005
Fluoranthene	0.36	1	0.3	1	0.005
Fluorene	0.15	10	0.02	5	0
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.16	10	0.02	5	0
Pyrene	0.62	1	0.5	10	0.0005
Total LMW PAH	0.43	10	0.04	5	0
Total HMW PAH	2.2	1	2	1	0.02
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.016	40	0.0004	1	0.02
Sum of PCB Congeners	0.028	40	0.0007	1	0.03
Pesticides					
4,4'-DDE	0.014	0.9	0.02	0.1	0
4,4'-DDT	0.063	0.9	0.07	0.1	0.08
Total DDT	No Data	--	0.09	--	--
Hexachlorobenzene	0.0023	100	0.00002	2	0.001
Methoxychlor	0.0039	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Burial Trench Area					HQ (unitless)
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)	
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0	
Diethylphthalate	0.0	100	0	200	0	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	0.064	--	--	5	0.01	
1,1-Dichloroethane	4.3	--	--	5	0.07	
1,1-Dichloroethylene	0.034	100	0.0003	5	0.003	
1,2-Dichloroethene	0.015	--	--	5	0	
Acetone	1.1	--	--	--	--	
Acetonitrile	0.17	--	--	--	--	
Acrolein	0.017	--	--	--	--	
Benzene	0.0055	--	--	0.5	0.004	
Carbon disulfide	0.021	--	--	--	--	
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	5.0	--	--	--	--	
Isopropanol	0.067	10	0.007	--	--	
Methyl ethyl ketone	0.36	--	--	--	--	
Methylene chloride	0.032	--	--	2	0	
Propanal	0.18	--	--	--	--	
Tert-Butyl alcohol (TBA)	0.020	--	--	--	--	
Tetrachloroethylene	0.33	100	0.003	0.2	2	
Tetrahydrofuran	0.046	--	--	4	0	
Toluene	0.0034	200	0.00002	3	0.001	
Trichloroethylene	24	--	--	0.01	2400	
Area CPEC						
Herbicides						
2,4,5-TP (Silvex)	0.022	--	--	--	--	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	No Data	10	--	5	--	
Pesticides						
4,4'-DDD	No Data	0.9	--	0.1	--	
Aldrin	No Data	1	--	0.5	--	
alpha-BHC	No Data	10	--	0.03	--	
Chlordane, gamma	No Data	0.2	--	0.04	--	
delta-BHC	No Data	10	--	0.03	--	
Dieldrin	No Data	1	--	0.5	--	
Endosulfan I	No Data	10	--	0.05	--	
Endrin	No Data	--	--	0.01	--	
Heptachlor epoxide	No Data	1	--	0.007	--	
Mirex	No Data	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	0.34	--	--	--	--	
Di-n-butylphthalate	No Data	200	--	200	--	
N-Nitrosodimethylamine	No Data	--	--	20	--	
N-Nitrosodipropylamine	No Data	--	--	20	--	
N-Nitrosomethylamine	0.0067	--	--	20	0.0003	
N-Nitrosopyrrolidine	No Data	--	--	--	--	

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Maintenance Shed Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	1300	500	3	330	4
Beryllium	0.54	10	0.06	40	0.01
Cadmium	11	32	0.3	140	0.08
Chromium	300	1	300	0.4	750
Cobalt	7.4	13	0.6	50	0.1
Copper	170	70	2	80	2
Total Cyanide	0.0	--	--	0.9	0
Lead	970	120	8	1700	0.6
Manganese	290	220	2	450	0.6
Mercury	0.22	0.3	0.7	0.1	2
Molybdenum	4.3	2	2	40	0.1
Nickel	86	38	2	280	0.3
Selenium	0.0	1	0	70	0
Thallium	1.9	1	2	1	2
Tin	62	50	1	50	1
Vanadium	36	2	18	2	23
Zinc	350	50	7	100	4
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dalapon	0.0	--	--	--	--
MCPA	0.0	--	--	--	--
MCPP	0.0	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0049	20	0.0002	5	0
Anthracene	0.0048	10	0.0005	5	0.001
Benzo(a)anthracene	0.0077	1	0.006	1	0.008
Benzo(a)pyrene	0.019	1	0.02	1	0.02
Benzo(b)fluoranthene	0.0076	1	0.006	1	0.006
Benzo(g,h,i)perylene	0.0	1	0	1	0
Benzo(k)fluoranthene	0.018	1	0.02	1	0.02
Chrysene	0.018	1	0.02	1	0.02
Fluoranthene	0.012	1	0.01	1	0.01
Fluorene	0.0088	10	0.0009	5	0.0008
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.041	10	0.004	5	0.003
Pyrene	0.019	1	0.02	10	0.002
Total LMW PAH	0.060	10	0.006	5	0.005
Total HMW PAH	0.10	1	0.08	1	0.1
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.55	40	0.01	1	0.6
Sum of PCB Congeners	0.064	40	0.002	1	0.06
Pesticides					
4,4'-DDE	0.010	0.9	0.01	0.1	0.1
4,4'-DDT	0.081	0.9	0.09	0.1	0.8
Total DDT	No Data	--	0.1	--	--
Hexachlorobenzene	0.0063	100	0.00006	2	0.003
Methoxychlor	0.017	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Maintenance Shed Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.47	200	0.002	200	0.002
Diethylphthalate	0.24	100	0.002	200	0.001
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.0	--	--	5	0
Acetone	0.061	--	--	--	--
Acetonitrile	0.0	--	--	--	--
Acrolein	0.0	--	--	--	--
Benzene	0.0019	--	--	0.5	0.004
Carbon disulfide	0.043	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0066	--	--	--	--
Isopropanol	0.0	10	0	--	--
Methyl ethyl ketone	0.0	--	--	--	--
Methylene chloride	0.0	--	--	2	0
Propanal	1.3	--	--	--	--
Tert-Butyl alcohol (TBA)	0.0	--	--	--	--
Tetrachloroethylene	0.0060	100	0.00006	0.2	0.01
Tetrahydrofuran	0.0	--	--	4	0
Toluene	0.0050	200	0.00003	3	0.002
Trichloroethylene	0.0	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	0.0022	10	0.0002	5	0.0004
Pesticides					
4,4'-DDD	No Data	0.9	--	0.1	--
Aldrin	No Data	1	--	0.5	--
alpha-BHC	No Data	10	--	0.03	--
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	No Data	1	--	0.5	--
Endosulfan I	No Data	10	--	0.05	--
Endrin	No Data	--	--	0.01	--
Heptachlor epoxide	No Data	1	--	0.007	--
Mirex	No Data	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	0.41	--	--	--	--
Di-n-butylphthalate	No Data	200	--	200	--
N-Nitrosodimethylamine	No Data	--	--	20	--
N-Nitrosodipropylamine	No Data	--	--	20	--
N-Nitrosomethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	No Data	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Central Drainage Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	960	500	2	330	3
Beryllium	0.61	10	0.07	40	0.02
Cadmium	2.7	32	0.7	140	0.02
Chromium	75	1	75	0.4	188
Cobalt	7.6	13	0.7	50	0.2
Copper	64	70	0.9	80	0.8
Total Cyanide	0.0	--	--	0.9	0
Lead	28	120	0.2	1700	0.02
Manganese	290	220	5	450	0.6
Mercury	0.43	0.3	1	0.1	4
Molybdenum	6.5	2	4	40	0.2
Nickel	52	38	2	280	0.2
Selenium	1.8	1	2	70	0.03
Thallium	0.61	1	0.6	1	0.6
Tin	64	50	1	50	1
Vanadium	51	2	26	2	32
Zinc	170	50	3	100	2
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.032	--	--	--	--
Dalapon	0.045	--	--	--	--
MCPA	1.8	--	--	--	--
MCPP	120	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.063	20	0.003	5	0.01
Anthracene	0.030	10	0.003	5	0.006
Benzo(a)anthracene	0.036	1	0.03	1	0.04
Benzo(a)pyrene	0.081	1	0.07	1	0.08
Benzo(b)fluoranthene	0.057	1	0.05	1	0.06
Benzo(g,h,i)perylene	0.026	1	0.02	1	0.03
Benzo(k)fluoranthene	0.40	1	0.3	1	0.4
Chrysene	0.097	1	0.08	1	0.1
Fluoranthene	0.29	1	0.2	1	0.3
Fluorene	0.097	10	0.01	5	0.02
Indeno(1,2,3-c,d)pyrene	0.015	1	0.01	1	0.02
Naphthalene	0.070	10	0.007	5	0.01
Pyrene	0.39	1	0.3	10	0.04
Total LMW PAH	0.26	10	0.03	5	0.05
Total HMW PAH	1.4	1	1	1	1
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	3.2	40	0.08	1	3
Sum of PCB Congeners	0.23	40	0.006	1	0.2
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.37	0.9	0.4	0.1	0.3
Total DDT	No Data	--	0.4	--	--
Hexachlorobenzene	0.36	100	0.004	2	0.04
Methoxychlor	0.0056	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Central Drainage Area					HQ (unitless)
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)	
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	29	200	0.1	200	0.1	
Diethylphthalate	0.22	100	0.002	200	0.001	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	1.5	--	--	5	0.3	
1,1-Dichloroethane	4.2	--	--	5	0.09	
1,1-Dichloroethylene	0.35	100	0.004	5	0.004	
1,2-Dichloroethene	2.1	--	--	5	0.02	
Acetone	0.060	--	--	--	--	
Acetonitrile	0.18	--	--	--	--	
Acrolein	0.0089	--	--	--	--	
Benzene	0.95	--	--	0.5	0.005	
Carbon disulfide	0.018	--	--	--	--	
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	4.7	--	--	--	--	
Isopropanol	0.074	10	0.007	--	--	
Methyl ethyl ketone	0.020	--	--	--	--	
Methylene chloride	0.43	--	--	2	0.1	
Propanal	0.023	--	--	--	--	
Tert-Butyl alcohol (TBA)	0.040	--	--	--	--	
Tetrachloroethylene	9.3	100	0.09	0.2	17	
Tetrahydrofuran	0.18	--	--	4	0.0007	
Toluene	0.32	200	0.002	3	0.0004	
Trichloroethylene	5.9	--	--	0.01	65	
Area CPEC						
Herbicides						
2,4,5-TP (Silvex)	No Data	--	--	--	--	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	0.0078	10	0.0008	5	0.002	
Pesticides						
4,4'-DDD	No Data	0.9	--	0.1	--	
Aldrin	0.019	1	0.02	0.5	0.04	
alpha-BHC	No Data	10	--	0.03	--	
Chlordane, gamma	No Data	0.2	--	0.04	--	
delta-BHC	No Data	10	--	0.03	--	
Dieldrin	No Data	1	--	0.5	--	
Endosulfan I	No Data	10	--	0.05	--	
Endrin	0.12	--	--	0.01	13	
Heptachlor epoxide	No Data	1	--	0.007	--	
Mirex	0.080	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	No Data	--	--	--	--	
Di-n-butylphthalate	No Data	200	--	200	--	
N-Nitrosodimethylamine	No Data	--	--	20	--	
N-Nitrosodipropylamine	No Data	--	--	20	--	
N-Nitrosomethylamine	No Data	--	--	20	--	
N-Nitrosopyrrolidine	No Data	--	--	--	--	

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Administration Building Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	130	500	0.6	330	0.4
Beryllium	0.55	10	0.06	40	0.01
Cadmium	1.1	32	0.03	140	0.008
Chromium	27	1	32	0.4	68
Cobalt	6.0	13	0.5	50	0.1
Copper	14	70	0.2	80	0.2
Total Cyanide	0.0	--	--	0.9	0
Lead	0.0	120	0	1700	0
Manganese	810	220	4	450	2
Mercury	0.038	0.3	0.2	0.1	0.4
Molybdenum	2.4	2	3	40	0.06
Nickel	31	38	0.9	280	0.1
Selenium	1.4	1	1	70	0.02
Thallium	0.23	1	0.3	1	0.2
Tin	38	50	1	50	0.8
Vanadium	30	2	19	2	19
Zinc	51	50	1	100	0.5
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.034	--	--	--	--
Dalapon	0.28	--	--	--	--
MCPA	3.0	--	--	--	--
MCPP	0.0	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0051	20	0.0003	5	0.001
Anthracene	0.012	10	0.001	5	0.002
Benzo(a)anthracene	0.016	1	0.01	1	0.02
Benzo(a)pyrene	0.015	1	0.01	1	0.02
Benzo(b)fluoranthene	0.015	1	0.01	1	0.02
Benzo(g,h,i)perylene	0.016	1	0.01	1	0.02
Benzo(k)fluoranthene	0.014	1	0.01	1	0.01
Chrysene	0.017	1	0.01	1	0.02
Fluoranthene	0.013	1	0.01	1	0.01
Fluorene	0.0070	10	0.0007	5	0.001
Indeno(1,2,3-c,d)pyrene	0.014	1	0.01	1	0.01
Naphthalene	0.0066	10	0.0007	5	0.0008
Pyrene	0.016	1	0.01	10	0.002
Total LMW PAH	0.031	10	0.003	5	0.006
Total HMW PAH	0.14	1	0.1	1	0.1
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	40	0	1	0
Sum of PCB Congeners	0.00012	40	0.000003	1	0.0001
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.0029	0.9	0.003	0.1	0.03
Total DDT	No Data	--	0.003	--	--
Hexachlorobenzene	0.0069	100	0.00007	2	0.003
Methoxychlor	0.0	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Administration Building Area				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0
Diethylphthalate	0.0	100	0	200	0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.0013	--	--	5	0
Acetone	0.078	--	--	--	--
Acetonitrile	0.0	--	--	--	--
Acrolein	0.0	--	--	--	--
Benzene	0.0041	--	--	0.5	0.007
Carbon disulfide	0.0085	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Isopropanol	0.0	10	0	--	--
Methyl ethyl ketone	0.014	--	--	--	--
Methylene chloride	0.0	--	--	2	0
Propanal	0.0	--	--	--	--
Tert-Butyl alcohol (TBA)	0.022	--	--	--	--
Tetrachloroethylene	0.0020	100	0.00002	0.2	0.01
Tetrahydrofuran	0.0026	--	--	4	0
Toluene	0.0017	200	0.000009	3	0
Trichloroethylene	0.0	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	No Data	10	--	5	--
Pesticides					
4,4'-DDD	No Data	0.9	--	0.1	--
Aldrin	No Data	1	--	0.5	--
alpha-BHC	No Data	10	--	0.03	--
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	No Data	1	--	0.5	--
Endosulfan I	No Data	10	--	0.05	--
Endrin	No Data	--	--	0.01	--
Heptachlor epoxide	No Data	1	--	0.007	--
Mirex	No Data	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	No Data	--	--	--	--
Di-n-butylphthalate	No Data	200	--	200	--
N-Nitrosodimethylamine	No Data	--	--	20	--
N-Nitrosodipropylamine	No Data	--	--	20	--
N-Nitrosomethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	No Data	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Roadway Areas				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	550	500	1	330	2
Beryllium	0.64	10	0.08	40	0.02
Cadmium	13	32	0.4	140	0.09
Chromium	470	1	470	0.4	1175
Cobalt	6.2	13	1	50	0.1
Copper	350	70	5	80	4
Total Cyanide	No Data	--	--	0.9	--
Lead	61	120	0.5	1700	0.04
Manganese	320	220	4	450	0.7
Mercury	0.15	0.3	0.5	0.1	2
Molybdenum	6.4	2	3	40	0.2
Nickel	170	38	4	280	0.6
Selenium	1.8	1	2	70	0.03
Thallium	0.57	1	0.8	1	0.6
Tin	70	50	1	50	1
Vanadium	43	2	22	2	27
Zinc	360	50	7	100	4
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	--	--	--	--
Dalapon	No Data	--	--	--	--
MCPA	No Data	--	--	--	--
MCPP	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.71	20	0.04	5	0.1
Anthracene	0.33	10	0.03	5	0.07
Benzo(a)anthracene	0.19	1	0.2	1	0.2
Benzo(a)pyrene	0.22	1	0.2	1	0.2
Benzo(b)fluoranthene	0.015	1	0.01	1	0.004
Benzo(g,h,i)perylene	0.070	1	0.06	1	0.07
Benzo(k)fluoranthene	0.041	1	0.03	1	0.04
Chrysene	0.95	1	0.8	1	1
Fluoranthene	0.57	1	0.5	1	0.6
Fluorene	2.2	10	0.2	5	0.4
Indeno(1,2,3-c,d)pyrene	0.021	1	0.02	1	0.01
Naphthalene	1.2	10	0.1	5	0.2
Pyrene	0.78	1	0.7	10	0.08
Total LMW PAH	4.4	10	0.4	5	0.9
Total HMW PAH	2.9	1	2	1	3
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	1.5	40	0.04	1	2
Sum of PCB Congeners	0.35	40	0.009	1	0.4
Pesticides					
4,4'-DDE	0.0011	0.9	0.001	0.1	0.01
4,4'-DDT	0.36	0.9	0.4	0.1	4
Total DDT	No Data	--	0.4	--	--
Hexachlorobenzene	0.0065	100	0.00007	2	0.003
Methoxychlor	0.059	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Roadway Areas				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	2.0	200	0.01	200	0.01
Diethylphthalate	3.1	100	0.03	200	0.001
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.0	--	--	5	0
Acetone	No Data	--	--	--	--
Acetonitrile	No Data	--	--	--	--
Acrolein	No Data	--	--	--	--
Benzene	0.0	--	--	0.5	0
Carbon disulfide	0.0	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Isopropanol	No Data	10	--	--	--
Methyl ethyl ketone	No Data	--	--	--	--
Methylene chloride	0.0	--	--	2	0
Propanal	0.0	--	--	--	--
Tert-Butyl alcohol (TBA)	No Data	--	--	--	--
Tetrachloroethylene	0.0	100	0	0.2	0
Tetrahydrofuran	0.0	--	--	4	0
Toluene	0.0	200	0	3	0
Trichloroethylene	0.0	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	0.042	10	0.004	5	0.008
Pesticides					
4,4'-DDD	No Data	0.9	--	0.1	--
Aldrin	No Data	1	--	0.5	--
alpha-BHC	No Data	10	--	0.03	--
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	0.015	1	0.02	0.5	0.03
Endosulfan I	No Data	10	--	0.05	--
Endrin	No Data	--	--	0.01	--
Heptachlor epoxide	No Data	1	--	0.007	--
Mirex	No Data	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	No Data	--	--	--	--
Di-n-butylphthalate	No Data	200	--	200	--
N-Nitrosodimethylamine	No Data	--	--	20	--
N-Nitrosodipropylamine	No Data	--	--	20	--
N-Nitrosomethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	No Data	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Remaining On-site Areas				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	170	500	2	330	0.5
Beryllium	0.84	10	0.08	40	0.02
Cadmium	3.1	32	0.1	140	0.02
Chromium	41	1	130	0.4	103
Cobalt	12	13	1	50	0.2
Copper	21	70	2	80	0.3
Total Cyanide	0.0	--	--	0.9	0
Lead	37	120	0.3	1700	0.02
Manganese	480	220	2	450	1
Mercury	0.034	0.3	0.3	0.1	0.3
Molybdenum	11	2	6	40	0.3
Nickel	62	38	2	280	0.2
Selenium	1.6	1	4	70	0.02
Thallium	2.1	1	3	1	2
Tin	63	50	1	50	1
Vanadium	47	2	24	2	30
Zinc	75	50	2	100	0.8
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dalapon	0.018	--	--	--	--
MCPA	4.9	--	--	--	--
MCPP	0.92	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.13	20	0.007	5	0.03
Anthracene	0.0023	10	0.0002	5	0
Benzo(a)anthracene	0.12	1	0.1	1	0.1
Benzo(a)pyrene	0.51	1	0.4	1	0.5
Benzo(b)fluoranthene	0.017	1	0.01	1	0.02
Benzo(g,h,i)perylene	0.0076	1	0.006	1	0.008
Benzo(k)fluoranthene	0.55	1	0.5	1	0.6
Chrysene	0.10	1	0.08	1	0.1
Fluoranthene	0.017	1	0.01	1	0.02
Fluorene	0.034	10	0.003	5	0.007
Indeno(1,2,3-c,d)pyrene	0.0061	1	0.005	1	0.006
Naphthalene	0.026	10	0.003	5	0.002
Pyrene	0.48	1	0.4	10	0.05
Total LMW PAH	0.19	10	0.02	5	0.04
Total HMW PAH	1.8	1	2	1	2
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	8.0	40	0.2	1	4
Sum of PCB Congeners	0.082	40	0.002	1	0.01
Pesticides					
4,4'-DDE	0.031	0.9	0.03	0.1	0.3
4,4'-DDT	0.54	0.9	0.6	0.1	2
Total DDT	No Data	--	0.7	--	--
Hexachlorobenzene	0.0016	100	0.00002	2	0.0008
Methoxychlor	0.14	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Remaining On-site Areas				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.26	200	0.001	200	0.001
Diethylphthalate	0.27	100	0.003	200	0.001
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0014	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.17	--	--	5	0
Acetone	0.22	--	--	--	--
Acetonitrile	0.0	--	--	--	--
Acrolein	0.0	--	--	--	--
Benzene	0.0051	--	--	0.5	0.01
Carbon disulfide	0.017	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0025	--	--	--	--
Isopropanol	0.087	10	0.009	--	--
Methyl ethyl ketone	0.022	--	--	--	--
Methylene chloride	0.0065	--	--	2	0.003
Propanal	0.36	--	--	--	--
Tert-Butyl alcohol (TBA)	0.036	--	--	--	--
Tetrachloroethylene	0.074	100	0.0007	0.2	0
Tetrahydrofuran	0.0031	--	--	4	0
Toluene	0.0022	200	0.00001	3	0.0002
Trichloroethylene	0.25	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	No Data	10	--	5	--
Pesticides					
4,4'-DDD	0.038	0.9	0.04	0.1	0.1
Aldrin	No Data	1	--	0.5	--
alpha-BHC	0.041	10	0.004	0.03	1
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	No Data	1	--	0.5	--
Endosulfan 1	No Data	10	--	0.05	--
Endrin	0.060	--	--	0.01	6
Heptachlor epoxide	0.11	1	0.1	0.007	10
Mirex	No Data	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	No Data	--	--	--	--
Di-n-butylphthalate	No Data	200	--	200	--
N-Nitrosodimethylamine	No Data	--	--	20	--
N-Nitrosodipropylamine	0.062	--	--	20	0.003
N-Nitrosomethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	1.3	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Former Ponds and Pads Areas South of the PSCT				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	3800	500	8	330	12
Beryllium	0.62	10	0.08	40	0.02
Cadmium	7.0	32	0.2	140	0.05
Chromium	160	1	160	0.4	400
Cobalt	47	13	4	50	0.9
Copper	59	70	0.8	80	0.7
Total Cyanide	0.0	--	--	0.9	0
Lead	120	120	1	1700	0.07
Manganese	1100	220	6	450	2
Mercury	0.068	0.3	0.2	0.1	0.7
Molybdenum	11	2	6	40	0.3
Nickel	130	38	3	280	0.5
Selenium	1.9	1	4	70	0.03
Thallium	1.1	1	1	1	1
Tin	65	50	1	50	1
Vanadium	43	2	22	2	27
Zinc	160	50	3	100	2
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.089	--	--	--	--
Dalapon	0.057	--	--	--	--
MCPA	7.0	--	--	--	--
MCPP	2.4	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.27	20	0.01	5	0.005
Anthracene	0.20	10	0.02	5	0.006
Benzo(a)anthracene	0.13	1	0.1	1	0.04
Benzo(a)pyrene	0.062	1	0.05	1	0.04
Benzo(b)fluoranthene	0.055	1	0.05	1	0.04
Benzo(g,h,i)perylene	0.21	1	0.2	1	0.2
Benzo(k)fluoranthene	0.055	1	0.05	1	0.06
Chrysene	0.22	1	0.2	1	0.04
Fluoranthene	0.060	1	0.05	1	0.03
Fluorene	0.16	10	0.02	5	0.006
Indeno(1,2,3-c,d)pyrene	0.045	1	0.04	1	0.05
Naphthalene	0.025	10	0.003	5	0.004
Pyrene	0.22	1	0.2	10	0.02
Total LMW PAH	0.66	10	0.07	5	0.02
Total HMW PAH	1.1	1	0.9	1	0.7
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	1.7	40	0.04	1	2
Sum of PCB Congeners	2.1	40	0.05	1	2
Pesticides					
4,4'-DDE	0.013	0.9	0.01	0.1	0.006
4,4'-DDT	0.26	0.9	0.3	0.1	3
Total DDT	No Data	--	0.3	--	--
Hexachlorobenzene	0.0062	100	0.00006	2	0.0004
Methoxychlor	0.025	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Former Ponds and Pads Areas South of the PSCT				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.36	200	0.002	200	0.002
Diethylphthalate	20	100	0.2	200	0.1
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0040	--	--	5	0.0008
1,1-Dichloroethane	2.3	--	--	5	0.0005
1,1-Dichloroethylene	0.020	100	0.0002	5	0.0006
1,2-Dichloroethene	17	--	--	5	0.02
Acetone	0.25	--	--	--	--
Acetonitrile	0.0	--	--	--	--
Acrolein	0.014	--	--	--	--
Benzene	0.084	--	--	0.5	0.005
Carbon disulfide	0.10	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.19	--	--	--	--
Isopropanol	0.068	10	0.007	--	--
Methyl ethyl ketone	0.024	--	--	--	--
Methylene chloride	0.0024	--	--	2	0.001
Propanal	0.077	--	--	--	--
Tert-Butyl alcohol (TBA)	0.034	--	--	--	--
Tetrachloroethylene	560	100	6	0.2	0.3
Tetrahydrofuran	0.0069	--	--	4	0.0006
Toluene	0.013	200	0.00007	3	0
Trichloroethylene	42	--	--	0.01	7
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	No Data	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	No Data	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	No Data	10	--	5	--
Pesticides					
4,4'-DDD	No Data	0.9	--	0.1	--
Aldrin	No Data	1	--	0.5	--
alpha-BHC	No Data	10	--	0.03	--
Chlordane, gamma	No Data	0.2	--	0.04	--
delta-BHC	No Data	10	--	0.03	--
Dieldrin	No Data	1	--	0.5	--
Endosulfan I	No Data	10	--	0.05	--
Endrin	No Data	--	--	0.01	--
Heptachlor epoxide	No Data	1	--	0.007	--
Mirex	No Data	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	No Data	--	--	--	--
Di-n-butylphthalate	No Data	200	--	200	--
N-Nitrosodimethylamine	0.067	--	--	20	0.003
N-Nitrosodipropylamine	No Data	--	--	20	--
N-Nitrosomethylethylamine	No Data	--	--	20	--
N-Nitrosopyrrolidine	No Data	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	160	500	0.3	330	0.5
Beryllium	0.0	10	0	40	0
Cadmium	21	32	0.7	140	0.1
Chromium	28	1	28	0.4	70
Cobalt	0.0	13	0	50	0
Copper	44	70	0.6	80	0.5
Total Cyanide	0.0	--	--	0.9	0
Lead	9.8	120	0.08	1700	0.006
Manganese	280	220	1	450	0.6
Mercury	0.040	0.3	0.1	0.1	0.4
Molybdenum	21	2	11	40	0.5
Nickel	164	38	4	280	0.6
Selenium	9.4	1	9	70	0.1
Thallium	0.51	1	0.5	1	0.5
Tin	47	50	0.9	50	0.9
Vanadium	0.0	2	0	2	0
Zinc	112	50	2	100	1
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	--	--	--	--	--
Dalapon	--	--	--	--	--
MCPA	--	--	--	--	--
MCPP	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	20	0	5	0
Anthracene	0.0	10	0	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0	1	0	1	0
Benzo(b)fluoranthene	0.0	1	0	1	0
Benzo(g,h,i)perylene	0.0	1	0	1	0
Benzo(k)fluoranthene	0.0	1	0	1	0
Chrysene	0.0	1	0	1	0
Fluoranthene	0.0	1	0	1	0
Fluorene	0.0	10	0	5	0
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.0039	10	0.0004	5	0.0008
Pyrene	0.0	1	0	10	0
Total LMW PAH	0.0039	10	0.0004	5	0.0008
Total HMW PAH	0.0	1	0	1	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	40	0	1	0
Sum of PCB Congeners	0.00019	40	0.000005	1	0.0002
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.0	0.9	0	0.1	0
Total DDT	No Data	--	0	--	0
Hexachlorobenzene	0.0	100	0	2	0
Methoxychlor	0.0	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0
Diethylphthalate	0.0	100	0	200	0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.0	--	--	5	0
Acetone	No Data	--	--	--	--
Acetonitrile	0.0	--	--	--	--
Acrolein	0.0	--	--	--	--
Benzene	0.0	--	--	0.5	0
Carbon disulfide	0.0	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Isopropanol	0.0	10	0	--	--
Methyl ethyl ketone	No Data	--	--	--	--
Methylene chloride	0.0026	--	--	2	0.001
Propanal	0.0	--	--	--	--
Tert-Butyl alcohol (TBA)	0.0	--	--	--	--
Tetrachloroethylene	0.0	100	0	0.2	0
Tetrahydrofuran	0.0	--	--	4	0
Toluene	0.0	200	0	3	0
Trichloroethylene	0.0	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	10	--	5	--
Pesticides					
4,4'-DDD	NAC	0.9	--	0.1	--
Aldrin	NAC	1	--	0.5	--
alpha-BHC	NAC	10	--	0.03	--
Chlordane, gamma	NAC	0.2	--	0.04	--
delta-BHC	NAC	10	--	0.03	--
Dieldrin	NAC	1	--	0.5	--
Endosulfan I	NAC	10	--	0.05	--
Endrin	NAC	--	--	0.01	--
Heptachlor epoxide	NAC	1	--	0.007	--
Mirex	NAC	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	--	--	--	--
Di-n-butylphthalate	NAC	200	--	200	--
N-Nitrosodimethylamine	NAC	--	--	20	--
N-Nitrosodipropylamine	NAC	--	--	20	--
N-Nitrosomethylamine	NAC	--	--	20	--
N-Nitrosopyrrolidine	NAC	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	RCF Pond				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	750	500	2	330	2
Beryllium	0.0	10	0	40	0
Cadmium	3.8	32	0.1	140	0.03
Chromium	42	1	42	0.4	105
Cobalt	0.0	13	0	50	0
Copper	29	70	0.4	80	0.4
Total Cyanide	0.0	--	--	0.9	0
Lead	9.5	120	0.08	1700	0.006
Manganese	340	220	2	450	0.8
Mercury	0.050	0.3	0.2	0.1	0.5
Molybdenum	6.3	2	3	40	0.2
Nickel	59	38	2	280	0.2
Selenium	2.7	1	3	70	0.04
Thallium	0.29	1	0.3	1	0.3
Tin	40	50	0.8	50	0.8
Vanadium	0.0	2	0	2	0
Zinc	80	50	2	100	0.8
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	--	--	--	--	--
Dalapon	--	--	--	--	--
MCPA	--	--	--	--	--
MCPP	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	20	0	5	0
Anthracene	0.0	10	0	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0	1	0	1	0
Benzo(b)fluoranthene	0.0	1	0	1	0
Benzo(g,h,i)perylene	0.0	1	0	1	0
Benzo(k)fluoranthene	0.0	1	0	1	0
Chrysene	0.0	1	0.009	1	0.01
Fluoranthene	0.0	1	0	1	0
Fluorene	0.0	10	0.0003	5	0.0005
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.00078	10	0	5	0
Pyrene	0.0	1	0.01	10	0.002
Total LMW PAH	0.00078	10	0.0003	5	0.0005
Total HMW PAH	0.0	1	0.02	1	0.03
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	40	0.002	1	0.1
Sum of PCB Congeners	0.00019	40	0.004	1	0.2
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.0	0.9	0.009	0.1	0.08
Total DDT	0.0	--	0.009	--	0.08
Hexachlorobenzene	0.0	100	0.00001	2	0.0005
Methoxychlor	--	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	RCF Pond					
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)	
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0	
Diethylphthalate	0.0	100	0	200	0	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	0.0	--	--	5	0	
1,1-Dichloroethane	0.0	--	--	5	0.002	
1,1-Dichloroethylene	0.0	100	0	5	0	
1,2-Dichloroethene	0.0	--	--	5	0	
Acetone	--	--	--	--	--	
Acetonitrile	--	--	--	--	--	
Acrolein	--	--	--	--	--	
Benzene	0.0	--	--	0.5	0	
Carbon disulfide	--	--	--	--	--	
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	--	--	--	--	--	
Isopropanol	--	10	0	--	--	
Methyl ethyl ketone	--	--	--	--	--	
Methylene chloride	0.0013	--	--	2	0.001	
Propanal	--	--	--	--	--	
Tert-Butyl alcohol (TBA)	--	--	--	--	--	
Tetrachloroethylene	0.0	100	0	0.2	0	
Tetrahydrofuran	0.0	--	--	4	0	
Toluene	0.0	200	0	3	0	
Trichloroethylene	0.0	--	--	0.01	0	
Area CPEC						
Herbicides						
2,4,5-TP (Silvex)	--	--	--	--	--	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	--	10	--	5	--	
Pesticides						
4,4'-DDD	--	0.9	--	0.1	--	
Aldrin	--	1	--	0.5	--	
alpha-BHC	--	10	--	0.03	--	
Chlordane, gamma	--	0.2	--	0.04	--	
delta-BHC	--	10	--	0.03	--	
Dieldrin	--	1	--	0.5	--	
Endosulfan I	--	10	--	0.05	--	
Endrin	--	--	--	0.01	--	
Heptachlor epoxide	--	1	--	0.007	--	
Mirex	--	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	--	--	--	--	--	
Di-n-butylphthalate	--	200	--	200	--	
N-Nitrosodimethylamine	--	--	--	20	--	
N-Nitrosodipropylamine	--	--	--	20	--	
N-Nitrosomethylamine	--	--	--	20	--	
N-Nitrosopyrrolidine	--	--	--	--	--	

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Pond A-5				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	4400	500	9	330	13
Beryllium	0.0	10	0	40	0
Cadmium	26	32	0.8	140	0.2
Chromium	76	1	76	0.4	190
Cobalt	0.0	13	0	50	0
Copper	56	70	0.8	80	0.7
Total Cyanide	0.0	--	--	0.9	0
Lead	0.0	120	0	1700	0
Manganese	430	220	2	450	1
Mercury	0.0	0.3	0	0.1	0
Molybdenum	15	2	8	40	0.4
Nickel	180	38	5	280	0.6
Selenium	7.0	1	7	70	0.1
Thallium	0.0	1	0	1	0
Tin	0.0	50	0	50	0
Vanadium	0.0	2	0	2	0
Zinc	110	50	2	100	1
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	--	--	--	--	--
Dalapon	--	--	--	--	--
MCPA	--	--	--	--	--
MCPP	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	20	0	5	0
Anthracene	0.0	10	0	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0	1	0	1	0
Benzo(b)fluoranthene	0.0	1	0	1	0
Benzo(g,h,i)perylene	0.0	1	0	1	0
Benzo(k)fluoranthene	0.0	1	0	1	0
Chrysene	0.011	1	0	1	0
Fluoranthene	0.0	1	0	1	0
Fluorene	0.00054	10	0	5	0
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.0	10	0.0009	5	0.002
Pyrene	0.0017	1	0	10	0
Total LMW PAH	0.00054	10	0.0009	5	0.002
Total HMW PAH	0.028	1	0	1	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.099	40	0	1	0
Sum of PCB Congeners	0.16	40	0.0001	1	0.004
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.081	0.9	0	0.1	0
Total DDT	0.081	--	0	--	0
Hexachlorobenzene	0.00048	100	0	2	0
Methoxychlor	--	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Pond A-5					
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)	
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0	
Diethylphthalate	0.0	100	0	200	0	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	0.0	--	--	5	0	
1,1-Dichloroethane	0.0024	--	--	5	0.01	
1,1-Dichloroethylene	0.0	100	0	5	0	
1,2-Dichloroethene	0.0	--	--	5	0.001	
Acetone	--	--	--	--	--	
Acetonitrile	--	--	--	--	--	
Acrolein	--	--	--	--	--	
Benzene	0.0	--	--	0.5	0.05	
Carbon disulfide	--	--	--	--	--	
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	--	--	--	--	--	
Isopropanol	--	10	0	--	--	
Methyl ethyl ketone	--	--	--	--	--	
Methylene chloride	0.0015	--	--	2	0.007	
Propanal	--	--	--	--	--	
Tert-Butyl alcohol (TBA)	--	--	--	--	--	
Tetrachloroethylene	0.0	100	0	0.2	0	
Tetrahydrofuran	0.0	--	--	4	0.001	
Toluene	0.0	200	0	3	0	
Trichloroethylene	0.0	--	--	0.01	0	
Area CPEC						
Herbicides						
2,4,5-TP (Silvex)	--	--	--	--	--	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	--	10	--	5	--	
Pesticides						
4,4'-DDD	--	0.9	--	0.1	--	
Aldrin	--	1	--	0.5	--	
alpha-BHC	--	10	--	0.03	--	
Chlordane, gamma	--	0.2	--	0.04	--	
delta-BHC	--	10	--	0.03	--	
Dieldrin	--	1	--	0.5	--	
Endosulfan I	--	10	--	0.05	--	
Endrin	--	--	--	0.01	--	
Heptachlor epoxide	--	1	--	0.007	--	
Mirex	--	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	--	--	--	--	--	
Di-n-butylphthalate	--	200	--	200	--	
N-Nitrosodimethylamine	--	--	--	20	--	
N-Nitrosodipropylamine	--	--	--	20	--	
N-Nitrosomethylamine	--	--	--	20	--	
N-Nitrosopyrrolidine	--	--	--	--	--	

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Pond 13				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	85	500	0.2	330	0.3
Beryllium	0.0	10	0	40	0
Cadmium	4.8	32	0.2	140	0.03
Chromium	27	1	27	0.4	68
Cobalt	0.0	13	0	50	0
Copper	20	70	0.3	80	0.2
Total Cyanide	0.0	--	--	0.9	0
Lead	8.6	120	0.07	1700	0.005
Manganese	180	220	0.8	450	0.4
Mercury	0.050	0.3	0.2	0.1	0.5
Molybdenum	0.0	2	0	40	0
Nickel	86	38	2	280	0.3
Selenium	3.1	1	3	70	0.04
Thallium	0.0	1	0	1	0
Tin	69	50	1	50	1
Vanadium	0.0	2	0	2	0
Zinc	72	50	1	100	0.7
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	--	--	--	--	--
Dalapon	--	--	--	--	--
MCPA	--	--	--	--	--
MCPP	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	20	0	5	0
Anthracene	0.0	10	0	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0	1	0	1	0
Benzo(b)fluoranthene	0.0	1	0	1	0
Benzo(g,h,i)perylene	0.0	1	0	1	0
Benzo(k)fluoranthene	0.0	1	0	1	0
Chrysene	0.0	1	0	1	0
Fluoranthene	0.0	1	0	1	0
Fluorene	0.0	10	0	5	0
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.0018	10	0.002	5	0.003
Pyrene	0.0	1	0	10	0
Total LMW PAH	0.0018	10	0.002	5	0.003
Total HMW PAH	0.0	1	0	1	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	40	0	1	0
Sum of PCB Congeners	0.0045	40	0.00009	1	0.003
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.0	0.9	0	0.1	0
Total DDT	0.0	--	0	--	0
Hexachlorobenzene	0.0	100	0	2	0
Methoxychlor	--	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Pond 13					
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)	
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0	
Diethylphthalate	0.0	100	0	200	0	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	0.0	--	--	5	0	
1,1-Dichloroethane	0.010	--	--	5	0	
1,1-Dichloroethylene	0.0	100	0	5	0	
1,2-Dichloroethene	0.0012	--	--	5	0	
Acetone	--	--	--	--	--	
Acetonitrile	--	--	--	--	--	
Acrolein	--	--	--	--	--	
Benzene	0.054	--	--	0.5	0	
Carbon disulfide	--	--	--	--	--	
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	--	--	--	--	--	
Isopropanol	--	10	0	--	--	
Methyl ethyl ketone	--	--	--	--	--	
Methylene chloride	0.0070	--	--	2	0	
Propanal	--	--	--	--	--	
Tert-Butyl alcohol (TBA)	--	--	--	--	--	
Tetrachloroethylene	0.0	100	0	0.2	0	
Tetrahydrofuran	0.0011	--	--	4	0	
Toluene	0.0	200	0	3	0	
Trichloroethylene	0.0	--	--	0.01	0	
Area CPEC						
Herbicides						
2,4,5-TP (Silvex)	--	--	--	--	--	
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	--	10	--	5	--	
Pesticides						
4,4'-DDD	--	0.9	--	0.1	--	
Aldrin	--	1	--	0.5	--	
alpha-BHC	--	10	--	0.03	--	
Chlordane, gamma	--	0.2	--	0.04	--	
delta-BHC	--	10	--	0.03	--	
Dieldrin	--	1	--	0.5	--	
Endosulfan I	--	10	--	0.05	--	
Endrin	--	--	--	0.01	--	
Heptachlor epoxide	--	1	--	0.007	--	
Mirex	--	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	--	--	--	--	--	
Di-n-butylphthalate	--	200	--	200	--	
N-Nitrosodimethylamine	--	--	--	20	--	
N-Nitrosodipropylamine	--	--	--	20	--	
N-Nitrosomethylamine	--	--	--	20	--	
N-Nitrosopyrrolidine	--	--	--	--	--	

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Inorganics					
Barium	200	500	0.4	330	0.6
Beryllium	0.0	10	0	40	0
Cadmium	8.1	32	0.3	140	0.06
Chromium	55	1	55	0.4	138
Cobalt	0.0	13	0	50	0
Copper	55	70	0.8	80	0.7
Total Cyanide	0.0	--	--	0.9	0
Lead	12	120	0.1	1700	0.007
Manganese	130	220	0.6	450	0.3
Mercury	0.048	0.3	0.2	0.1	0.5
Molybdenum	11	2	6	40	0.3
Nickel	120	38	3	280	0.4
Selenium	15	1	15	70	0.2
Thallium	0.67	1	0.7	1	0.7
Tin	62	50	1	50	1
Vanadium	0.0	2	0	2	0
Zinc	90	50	2	100	0.9
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	--	--	--	--	--
Dalapon	--	--	--	--	--
MCPA	--	--	--	--	--
MCPP	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	20	0	5	0
Anthracene	0.0	10	0	5	0
Benzo(a)anthracene	0.0	1	0	1	0
Benzo(a)pyrene	0.0	1	0	1	0
Benzo(b)fluoranthene	0.0	1	0	1	0
Benzo(g,h,i)perylene	0.0	1	0	1	0
Benzo(k)fluoranthene	0.0	1	0	1	0
Chrysene	0.0	1	0.002	1	0.002
Fluoranthene	0.0	1	0	1	0
Fluorene	0.0	10	0	5	0
Indeno(1,2,3-c,d)pyrene	0.0	1	0	1	0
Naphthalene	0.0034	10	0.0007	5	0.001
Pyrene	0.0	1	0	10	0
Total LMW PAH	0.0034	10	0.0007	5	0.001
Total HMW PAH	0.0	1	0.002	1	0.002
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	40	0	1	0
Sum of PCB Congeners	0.0035	40	0.00008	1	0.003
Pesticides					
4,4'-DDE	0.0	0.9	0	0.1	0
4,4'-DDT	0.0	0.9	0	0.1	0
Total DDT	0.0	--	0	--	0
Hexachlorobenzene	0.0	100	0	2	0
Methoxychlor	--	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil ^a EPC (mg/kg)	Plant Toxicity Value ^b (mg/kg)	HQ (unitless)	Soil Invertebrate Toxicity Value ^b (mg/kg)	HQ (unitless)
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	200	0	200	0
Diethylphthalate	0.0	100	0	200	0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	--	--	5	0
1,1-Dichloroethane	0.0	--	--	5	0
1,1-Dichloroethylene	0.0	100	0	5	0
1,2-Dichloroethene	0.0	--	--	5	0
Acetone	--	--	--	--	--
Acetonitrile	--	--	--	--	--
Acrolein	--	--	--	--	--
Benzene	0.0	--	--	0.5	0
Carbon disulfide	--	--	--	--	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	--	--	--	--	--
Isopropanol	--	10	0	--	--
Methyl ethyl ketone	--	--	--	--	--
Methylene chloride	0.0	--	--	2	0.003
Propanal	--	--	--	--	--
Tert-Butyl alcohol (TBA)	--	--	--	--	--
Tetrachloroethylene	0.0	100	0	0.2	0
Tetrahydrofuran	0.0	--	--	4	0
Toluene	0.0	200	0	3	0
Trichloroethylene	0.0	--	--	0.01	0
Area CPEC					
Herbicides					
2,4,5-TP (Silvex)	--	--	--	--	--
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	--	10	--	5	--
Pesticides					
4,4'-DDD	--	0.9	--	0.1	--
Aldrin	--	1	--	0.5	--
alpha-BHC	--	10	--	0.03	--
Chlordane, gamma	--	0.2	--	0.04	--
delta-BHC	--	10	--	0.03	--
Dieldrin	--	1	--	0.5	--
Endosulfan I	--	10	--	0.05	--
Endrin	--	--	--	0.01	--
Heptachlor epoxide	--	1	--	0.007	--
Mirex	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	--	--	--	--	--
Di-n-butylphthalate	--	200	--	200	--
N-Nitrosodimethylamine	--	--	--	20	--
N-Nitrosodipropylamine	--	--	--	20	--
N-Nitrosomethylamine	--	--	--	20	--
N-Nitrosopyrrolidine	--	--	--	--	--

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

HMW = High Molecular Weight

HQ = Hazard Quotient (unitless)

LMW = Low Molecular Weight

Total DDT = Sum of DDD, DDE, DDT

Total HMW PAH = Sum of the HMW PAH

Total LMW PAH = Sum of the LMW PAH

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

"--" = in Screening Value column, compound not a CPEC in the matrix, or Screening Value not available. In HQ column, HQ not calculated.

A soil value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

Soil is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^aSoil is surface values (0-0.5 feet below ground surface [bgs]).

^b From Table U5-1 of the ERA (Appendix U) and Attachment 2.

Table U.A5-8
Risk Estimates for Sediment-Dwelling Invertebrates in Sitewide Aquatic Areas
Based on Maximum Concentrations

CPEC	Sitewide (Pondwide)				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	4400	--	--	--	--
Chromium	76	43	2	111	0.7
Manganese	430	460	0.9	1100	0.4
Mercury	0.050	0.18	0.3	1.1	0.05
Molybdenum	21	--	--	--	--
Selenium	15	2.5	6	4.0	4
Thallium	0.67	--	--	--	--
Tin	69	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	--	--	--	--
Dichlorprop	0.020	3.2	0.006	--	--
MCPP	3.1	0.0020	1550	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.011	0.17	0.07	1.3	0.009
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0027	0.077	0.03	0.54	0.005
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.017	0.18	0.1	0.56	0.03
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.017	0.20	0.09	1.5	0.01
Total LMW PAH	0.020	0.18	0.1	0.56	0.04
Total HMW PAH	0.028	0.15	0.2	1.5	0.02
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.099	0.060	2	0.68	0.1
Sum of PCB Congeners	0.16	0.060	3	0.68	0.2
Pesticides					
4,4'-DDD	0.012	0.0049	2	0.028	0.4
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0081	0.0042	2	0.063	0.1
Total DDT	No Data	--	4	--	0.6
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0089	0.0010	9	0.035	0.3
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.00095	0.020	0.05	0.24	0.004
Kepone	0.0	0.0033	0	--	--

Table U.A5-8
Risk Estimates for Sediment-Dwelling Invertebrates in Sitewide Aquatic Areas
Based on Maximum Concentrations

CPEC	Sitewide (Pondwide)				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.052	0.00058	90	--	--
1,2-Dichloroethene	0.0058	--	--	--	--
Acetone	0.065	0.0099	7	0.057	1
Benzene	0.027	0.14	0.2	1.0	0.03
Carbon disulfide	0.15	0.024	6	--	--
Diisopropyl ether	0.0040	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	0.0	0.042	0	--	--
Methyl isobutyl ketone (MIBK)	0.0	0.025	0	--	--
Methylcyclopentane	0.28	--	--	--	--
Methylene chloride	0.014	0.16	0.09	20	0.0007
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0042	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

CPEC = Constituent of Potential Ecological Concern

HQ = Hazard Quotient (unitless)

Total LMW PAH = Sum of the LMW PAH

Total HMW PAH = Sum of the HMW PAH

Total DDT = Sum of DDD, DDE, DDT

NA = Not Applicable

EPC = Exposure Point Concentration

No Data = CPEC was not analyzed in the sample

-- = in TRV column, compound not a CPEC in the matrix, or Screening Level not available. In HQ column, HQ not calculated.

A EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

Sediment is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^a The sediment CPECs cadmium, copper, lead, nickel, and zinc were evaluated separately using Simultaneously Extracted Metals- Acid Volatile Sulfide (SEM-AVS) methodologies. AVS concentrations exceeded SEM concentrations for these CPECs indicating that the metals are bound to AVS and not available to aquatic receptors. Consequently, these CPECs are not included in this risk estimation.

Table U.A5-9
Risk Estimates for Sediment-Dwelling Invertebrates in Stormwater Impoundments
Based on Maximum Concentrations

CPEC ^a	Stormwater Impoundments ^b				
	EPC Sediment ^c (mg/kg)	Selected Low Screening Value ^d (mg/kg)	HQ (unitless)	Selected High Screening Value ^d (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	750	--	--	--	--
Chromium	42	43	1	111	0.4
Manganese	340	460	0.7	1100	0.3
Mercury	0.050	0.18	0.3	1.1	0.05
Molybdenum	21	--	--	--	--
Selenium	9.4	2.5	4	4.0	2
Thallium	0.51	--	--	--	--
Tin	69	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	--	--	--	--
Dichlorprop	0.020	3.2	0.006	--	--
MCPP	1.0	0.0020	500	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.011	0.17	0.07	1.3	0.009
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0027	0.077	0.03	0.54	0.005
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.017	0.18	0.1	0.56	0.03
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.017	0.20	0.09	1.5	0.01
Total LMW PAH	0.020	0.18	0.1	0.56	0.04
Total HMW PAH	0.028	0.15	0.2	1.5	0.02
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.099	0.060	2	0.68	0.1
Sum of PCB Congeners	0.16	0.060	3	0.68	0.2
Pesticides					
4,4'-DDD	0.012	0.0049	2	0.028	0.4
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0081	0.0042	2	0.063	0.1
Total DDT	No Data	--	4	--	0.6
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0089	0.0010	9	0.035	0.3
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.00095	0.020	0.05	0.24	0.004
Kepone	0.0	0.0033	0	--	--

Table U.A5-9
Risk Estimates for Sediment-Dwelling Invertebrates in Stormwater Impoundments
Based on Maximum Concentrations

CPEC ^a	Stormwater Impoundments ^b				
	EPC Sediment ^c (mg/kg)	Selected Low Screening Value ^d (mg/kg)	HQ (unitless)	Selected High Screening Value ^d (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.012	0.00058	21	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	0.065	0.0099	7	0.057	1
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.15	0.024	6	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	0.0	0.042	0	--	--
Methyl isobutyl ketone (MIBK)	0.0	0.025	0	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0029	0.16	0.02	20	0.0001
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	A-Series Pond				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	160	--	--	--	--
Chromium	28	43	0.6	111	0.3
Manganese	280	460	0.6	1100	0.3
Mercury	0.040	0.18	0.2	1.1	0.04
Molybdenum	21	--	--	--	--
Selenium	9.4	2.5	4	4.0	2
Thallium	0.51	--	--	--	--
Tin	47	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.041	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	0.0	0.0020	0	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.0	0.17	0	1.3	0
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.0039	0.18	0.02	0.56	0.007
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.0	0.20	0	1.5	0
Total LMW PAH	0.0039	0.18	0.02	0.56	0.007
Total HMW PAH	0.0	0.15	0	1.5	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	0.00019	0.060	0.003	0.68	0.0003
Pesticides					
4,4'-DDD	0.0	0.0049	0	0.028	0
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0	0.0042	0	0.063	0
Total DDT	No Data	--	0	--	0
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.0	0.020	0	0.24	0
Kepone	0.0	0.0033	0	--	--

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

CPEC	A-Series Pond				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	No Data	0.0099	--	0.057	--
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.0	0.024	0	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	No Data	0.042	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	0.025	--	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0026	0.16	0.02	20	0.0001
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	RCF Pond				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	750	--	--	--	--
Chromium	42	43	1	111	0.4
Manganese	340	460	0.7	1100	0.3
Mercury	0.050	0.18	0.3	1.1	0.05
Molybdenum	6.3	--	--	--	--
Selenium	2.7	2.5	1	4.0	0.7
Thallium	0.29	--	--	--	--
Tin	40	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	--	--	--	--
Dichlorprop	0.020	3.2	0.006	--	--
MCPP	1.0	0.0020	500	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.011	0.17	0.07	1.3	0.009
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0027	0.077	0.03	0.54	0.005
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.0	0.18	0	0.56	0
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.017	0.20	0.09	1.5	0.01
Total LMW PAH	0.0027	0.18	0.02	0.56	0.005
Total HMW PAH	0.028	0.15	0.2	1.5	0.02
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.099	0.060	2	0.68	0.1
Sum of PCB Congeners	0.16	0.060	3	0.68	0.2
Pesticides					
4,4'-DDD	0.012	0.0049	2	0.028	0.4
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0081	0.0042	2	0.063	0.1
Total DDT	No Data	--	4	--	0.6
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0089	0.0010	9	0.035	0.3
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.00095	0.020	0.05	0.24	0.004
Kepone	0.0	0.0033	0	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	RCF Pond				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.012	0.00058	21	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	0.065	0.0099	7	0.057	1
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.052	0.024	2	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	0.0	0.042	0	--	--
Methyl isobutyl ketone (MIBK)	0.0	0.025	0	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0029	0.16	0.02	20	0.0001
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Pond A-5				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	4400	--	--	--	--
Chromium	76	43	2	111	0.7
Manganese	430	460	0.9	1100	0.4
Mercury	0.0	0.18	0	1.1	0
Molybdenum	15	--	--	--	--
Selenium	7.0	2.5	3	4.0	2
Thallium	0.0	--	--	--	--
Tin	0.0	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	2.0	0.0020	1000	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.0	0.17	0	1.3	0
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.0090	0.18	0.05	0.56	0.02
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.0	0.20	0	1.5	0
Total LMW PAH	0.0090	0.18	0.05	0.56	0.02
Total HMW PAH	0.0	0.15	0	1.5	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	0.0045	0.060	0.07	0.68	0.007
Pesticides					
4,4'-DDD	0.0	0.0049	0	0.028	0
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0	0.0042	0	0.063	0
Total DDT	No Data	--	0	--	0
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.0	0.020	0	0.24	0
Kepone	0.0	0.0033	0	--	--

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

CPEC	Pond A-5				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.052	0.00058	90	--	--
1,2-Dichloroethene	0.0058	--	--	--	--
Acetone	No Data	0.0099	--	0.057	--
Benzene	0.027	0.14	0.2	1.0	0.03
Carbon disulfide	0.054	0.024	2	--	--
Diisopropyl ether	0.0040	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	No Data	0.042	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	0.025	--	--	--
Methylcyclopentane	0.28	--	--	--	--
Methylene chloride	0.014	0.16	0.09	20	0.0007
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0042	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Pond 13				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	85	--	--	--	--
Chromium	27	43	0.6	111	0.2
Manganese	180	460	0.4	1100	0.2
Mercury	0.050	0.18	0.3	1.1	0.05
Molybdenum	0.0	--	--	--	--
Selenium	3.1	2.5	1	4.0	0.8
Thallium	0.0	--	--	--	--
Tin	69	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	0.0	0.0020	0	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.0	0.17	0	1.3	0
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.017	0.18	0.1	0.56	0.03
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.0	0.20	0	1.5	0
Total LMW PAH	0.017	0.18	0.1	0.56	0.03
Total HMW PAH	0.0	0.15	0	1.5	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	0.0035	0.060	0.06	0.68	0.005
Pesticides					
4,4'-DDD	0.0	0.0049	0	0.028	0
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0	0.0042	0	0.063	0
Total DDT	No Data	--	0	--	0
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.0	0.020	0	0.24	0
Kepone	0.0	0.0033	0	--	--

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

CPEC	Pond 13				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	No Data	0.0099	--	0.057	--
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.15	0.024	6	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	No Data	0.042	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	0.025	--	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0	0.16	0	20	0
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Pond 18				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	200	--	--	--	--
Chromium	55	43	1	111	0.5
Manganese	130	460	0.3	1100	0.1
Mercury	0.048	0.18	0.3	1.1	0.05
Molybdenum	11	--	--	--	--
Selenium	15	2.5	6	4.0	4
Thallium	0.67	--	--	--	--
Tin	62	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.045	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	3.1	0.0020	1550	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.18	0	0.56	0
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.0024	0.17	0.01	1.3	0.002
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.0069	0.18	0.04	0.56	0.01
Phenanthrene	0.0	0.20	0	1.2	0
Pyrene	0.0	0.20	0	1.5	0
Total LMW PAH	0.0069	0.18	0.04	0.56	0.01
Total HMW PAH	0.0024	0.15	0.02	1.5	0.002
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	0.0031	0.060	0.05	0.68	0.005
Pesticides					
4,4'-DDD	0.0	0.0049	0	0.028	0
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0	0.0042	0	0.063	0
Total DDT	No Data	--	0	--	0
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.0	0.020	0	0.24	0
Kepone	0.0	0.0033	0	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Pond 18				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	No Data	0.0099	--	0.057	--
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.031	0.024	1	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	No Data	0.042	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	0.025	--	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0060	0.16	0.04	20	0.0003
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	North Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	98	--	--	--	--
Chromium	29	43	0.7	111	0.3
Manganese	640	460	1	1100	0.6
Mercury	0.033	0.18	0.2	1.1	0.03
Molybdenum	6.3	--	--	--	--
Selenium	3.5	2.5	1	4.0	0.9
Thallium	0.26	--	--	--	--
Tin	51	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	0.0	0.0020	0	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0010	0.18	0.006	0.56	0.002
Benzo(a)anthracene	0.00045	0.11	0.004	1.1	0.0004
Benzo(a)pyrene	0.00029	0.15	0.002	1.5	0.0002
Benzo(b)fluoranthene	0.00068	10	0.00007	--	--
Benzo(g,h,i)perylene	0.00052	0.17	0.003	3.2	0.0002
Chrysene	0.00084	0.17	0.005	1.3	0.0007
Fluoranthene	0.0012	0.42	0.003	2.2	0.0005
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.00041	0.20	0.002	3.2	0.0001
Naphthalene	0.0	0.18	0	0.56	0
Phenanthrene	0.00075	0.20	0.004	1.2	0.0006
Pyrene	0.00092	0.20	0.005	1.5	0.0006
Total LMW PAH	0.0018	0.18	0.01	0.56	0.003
Total HMW PAH	0.0053	0.15	0.04	1.5	0.004
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	No Data	0.060	--	0.68	--
Pesticides					
4,4'-DDD	0.00090	0.0049	0.2	0.028	0.03
4,4'-DDE	0.00030	0.0032	0.09	0.031	0.01
4,4'-DDT	0.00054	0.0042	0.1	0.063	0.009
Total DDT	No Data	--	0.4	--	0.05
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.00027	0.0010	0.3	0.0033	0.08
Endosulfan II	0.0011	0.0010	1	0.0019	0.6
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.00037	0.0025	0.1	0.016	0.02
Hexachlorobenzene	0.00058	0.020	0.03	0.24	0.002
Kepone	No Data	0.0033	--	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	North Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	0.0	0.0099	0	0.057	0
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.0	0.024	0	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0069	0.18	0.04	3.0	0.002
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Methyl ethyl ketone	0.0	0.042	0	--	--
Methyl isobutyl ketone (MIBK)	0.0	0.025	0	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0	0.16	0	20	0
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	A Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	120	--	--	--	--
Chromium	26	43	0.6	111	0.2
Manganese	840	460	2	1100	0.8
Mercury	0.0	0.18	0	1.1	0
Molybdenum	3.0	--	--	--	--
Selenium	1.1	2.5	0.4	4.0	0.3
Thallium	0.26	--	--	--	--
Tin	52	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	0.0	0.0020	0	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0012	0.18	0.007	0.56	0.002
Benzo(a)anthracene	0.0038	0.11	0.04	1.1	0.004
Benzo(a)pyrene	0.0035	0.15	0.02	1.5	0.002
Benzo(b)fluoranthene	0.0026	10	0.0003	--	--
Benzo(g,h,i)perylene	0.0029	0.17	0.02	3.2	0.0009
Chrysene	0.0050	0.17	0.03	1.3	0.004
Fluoranthene	0.0089	0.42	0.02	2.2	0.004
Fluorene	0.00059	0.077	0.008	0.54	0.001
Indeno(1,2,3-c,d)pyrene	0.0030	0.20	0.02	3.2	0.0009
Naphthalene	0.0	0.18	0	0.56	0
Phenanthrene	0.0099	0.20	0.05	1.2	0.008
Pyrene	0.011	0.20	0.06	1.5	0.007
Total LMW PAH	0.012	0.18	0.07	0.56	0.02
Total HMW PAH	0.041	0.15	0.3	1.5	0.03
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0057	0.060	0.1	0.68	0.008
Sum of PCB Congeners	No Data	0.060	--	0.68	--
Pesticides					
4,4'-DDD	0.00092	0.0049	0.2	0.028	0.03
4,4'-DDE	0.0018	0.0032	0.6	0.031	0.06
4,4'-DDT	0.00027	0.0042	0.06	0.063	0.004
Total DDT	No Data	--	0.8	--	0.09
Chlordane, alpha	0.00036	0.0032	0.1	0.018	0.02
Endosulfan I	0.0012	0.0010	1	0.0033	0.4
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0012	0.0010	1	0.035	0.03
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.0	0.0025	0	0.016	0
Hexachlorobenzene	0.00032	0.020	0.02	0.24	0.001
Kepone	No Data	0.0033	--	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	A Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	0.0	0.0099	0	0.057	0
Benzene	0.0033	0.14	0.02	1.0	0.003
Carbon disulfide	0.010	0.024	0.4	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Methyl ethyl ketone	0.010	0.042	0.2	--	--
Methyl isobutyl ketone (MIBK)	0.0	0.025	0	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0	0.16	0	20	0
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Upper C Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	96	--	--	--	--
Chromium	41	43	0.9	111	0.4
Manganese	110	460	0.2	1100	0.1
Mercury	0.0	0.18	0	1.1	0
Molybdenum	6.4	--	--	--	--
Selenium	0.0	2.5	0	4.0	0
Thallium	0.0	--	--	--	--
Tin	48	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	--	--	--	--
Dichlorprop	No Data	3.2	--	--	--
MCPP	No Data	0.0020	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0010	0.18	0.006	0.56	0.002
Benzo(a)anthracene	0.00095	0.11	0.009	1.1	0.0009
Benzo(a)pyrene	0.00087	0.15	0.006	1.5	0.0006
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.00083	0.17	0.005	3.2	0.0003
Chrysene	0.0017	0.17	0.01	1.3	0.001
Fluoranthene	0.0011	0.42	0.003	2.2	0.0005
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.00051	0.20	0.003	3.2	0.0002
Naphthalene	0.0	0.18	0	0.56	0
Phenanthrene	0.00088	0.20	0.004	1.2	0.0008
Pyrene	0.0016	0.20	0.008	1.5	0.001
Total LMW PAH	0.0019	0.18	0.01	0.56	0.003
Total HMW PAH	0.0076	0.15	0.05	1.5	0.005
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	No Data	0.060	--	0.68	--
Pesticides					
4,4'-DDD	0.0025	0.0049	0.5	0.028	0.09
4,4'-DDE	0.0022	0.0032	0.7	0.031	0.07
4,4'-DDT	0.0011	0.0042	0.3	0.063	0.02
Total DDT	No Data	--	1	--	0.2
Chlordane, alpha	0.00042	0.0032	0.1	0.018	0.02
Endosulfan I	0.0	0.0010	0	0.0033	0
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.00034	0.0025	0.1	0.016	0.02
Hexachlorobenzene	0.00052	0.020	0.03	0.24	0.002
Kepone	No Data	0.0033	--	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Upper C Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	No Data	0.00058	--	--	--
1,2-Dichloroethene	No Data	--	--	--	--
Acetone	No Data	0.0099	--	0.057	--
Benzene	No Data	0.14	--	1.0	--
Carbon disulfide	No Data	0.024	--	--	--
Diisopropyl ether	No Data	--	--	--	--
Ethylbenzene	No Data	0.18	--	3.0	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	--	--	--	--
Methyl ethyl ketone	No Data	0.042	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	0.025	--	--	--
Methylcyclopentane	No Data	--	--	--	--
Methylene chloride	No Data	0.16	--	20	--
Propanal	No Data	--	--	--	--
Tetrahydrofuran	No Data	--	--	--	--
Trichloroethylene	No Data	0.11	--	13	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Lower C Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	110	--	--	--	--
Chromium	30	43	0.7	111	0.3
Manganese	410	460	0.9	1100	0.4
Mercury	0.0	0.18	0	1.1	0
Molybdenum	4.4	--	--	--	--
Selenium	2.8	2.5	1	4.0	0.7
Thallium	0.0	--	--	--	--
Tin	53	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dichlorprop	0.0	3.2	0	--	--
MCPP	0.0	0.0020	0	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0013	0.18	0.007	0.56	0.002
Benzo(a)anthracene	0.0016	0.11	0.01	1.1	0.002
Benzo(a)pyrene	0.0013	0.15	0.009	1.5	0.0009
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0012	0.17	0.007	3.2	0.0004
Chrysene	0.0020	0.17	0.01	1.3	0.002
Fluoranthene	0.0021	0.42	0.005	2.2	0.0009
Fluorene	0.00054	0.077	0.007	0.54	0.001
Indeno(1,2,3-c,d)pyrene	0.00074	0.20	0.004	3.2	0.0002
Naphthalene	0.0	0.18	0	0.56	0
Phenanthrene	0.0028	0.20	0.01	1.2	0.002
Pyrene	0.0043	0.20	0.02	1.5	0.003
Total LMW PAH	0.0046	0.18	0.03	0.56	0.008
Total HMW PAH	0.013	0.15	0.09	1.5	0.009
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	No Data	0.060	--	0.68	--
Pesticides					
4,4'-DDD	0.00083	0.0049	0.2	0.028	0.03
4,4'-DDE	0.00066	0.0032	0.2	0.031	0.02
4,4'-DDT	0.0	0.0042	0	0.063	0
Total DDT	No Data	--	0.4	--	0.05
Chlordane, alpha	0.0	0.0032	0	0.018	0
Endosulfan I	0.0012	0.0010	1	0.0033	0.4
Endosulfan II	0.0	0.0010	0	0.0019	0
Endosulfan sulfate	0.0	0.0010	0	0.035	0
Endrin	0.0	0.0022	0	0.21	0
Heptachlor	0.00063	0.0025	0.3	0.016	0.04
Hexachlorobenzene	0.0013	0.020	0.07	0.24	0.005
Kepone	No Data	0.0033	--	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	Lower C Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	0.0	0.0099	0	0.057	0
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.0	0.024	0	--	--
Diisopropyl ether	0.0	--	--	--	--
Ethylbenzene	0.0	0.18	0	3.0	0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Methyl ethyl ketone	0.024	0.042	0.6	--	--
Methyl isobutyl ketone (MIBK)	0.0059	0.025	0.2	--	--
Methylcyclopentane	0.0	--	--	--	--
Methylene chloride	0.0	0.16	0	20	0
Propanal	0.94	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	B Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Inorganics^a					
Barium	93	--	--	--	--
Chromium	33	43	0.8	111	0.3
Manganese	300	460	0.7	1100	0.3
Mercury	0.0	0.18	0	1.1	0
Molybdenum	2.7	--	--	--	--
Selenium	0.0	2.5	0	4.0	0
Thallium	0.36	--	--	--	--
Tin	40	--	--	--	--
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--
Dichlorprop	No Data	3.2	--	--	--
MCPP	0.0	0.0020	0	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	No Data	0.18	--	0.56	--
Benzo(a)anthracene	0.0	0.11	0	1.1	0
Benzo(a)pyrene	0.0	0.15	0	1.5	0
Benzo(b)fluoranthene	0.0	10	0	--	--
Benzo(g,h,i)perylene	0.0	0.17	0	3.2	0
Chrysene	0.0	0.17	0	1.3	0
Fluoranthene	0.0	0.42	0	2.2	0
Fluorene	0.0	0.077	0	0.54	0
Indeno(1,2,3-c,d)pyrene	0.0	0.20	0	3.2	0
Naphthalene	0.0	0.18	0	0.56	0
Phenanthrene	No Data	0.20	--	1.2	--
Pyrene	0.0	0.20	0	1.5	0
Total LMW PAH	0.0	0.18	0	0.56	0
Total HMW PAH	0.0	0.15	0	1.5	0
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.060	0	0.68	0
Sum of PCB Congeners	No Data	0.060	--	0.68	--
Pesticides					
4,4'-DDD	No Data	0.0049	--	0.028	--
4,4'-DDE	0.0	0.0032	0	0.031	0
4,4'-DDT	0.0	0.0042	0	0.063	0
Total DDT	No Data	--	0	--	0
Chlordane, alpha	No Data	0.0032	--	0.018	--
Endosulfan I	No Data	0.0010	--	0.0033	--
Endosulfan II	No Data	0.0010	--	0.0019	--
Endosulfan sulfate	No Data	0.0010	--	0.035	--
Endrin	No Data	0.0022	--	0.21	--
Heptachlor	No Data	0.0025	--	0.016	--
Hexachlorobenzene	0.0	0.020	0	0.24	0
Kepone	No Data	0.0033	--	--	--

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC	B Drainage				
	EPC Sediment ^b (mg/kg)	Selected Low Screening Value ^c (mg/kg)	HQ (unitless)	Selected High Screening Value ^c (mg/kg)	HQ (unitless)
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.00058	0	--	--
1,2-Dichloroethene	0.0	--	--	--	--
Acetone	0.0	0.0099	0	0.057	0
Benzene	0.0	0.14	0	1.0	0
Carbon disulfide	0.0	0.024	0	--	--
Diisopropyl ether	No Data	--	--	--	--
Ethylbenzene	No Data	0.18	--	3.0	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--
Methyl ethyl ketone	0.0	0.042	0	--	--
Methyl isobutyl ketone (MIBK)	No Data	0.025	--	--	--
Methylcyclopentane	No Data	--	--	--	--
Methylene chloride	0.0	0.16	0	20	0
Propanal	0.0	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--
Trichloroethylene	0.0	0.11	0	13	0

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC = Chemical of Potential Ecological Concern.

HQ = Hazard Quotient (unitless).

Total LMW PAH = Sum of the LMW PAHs.

Total HMW PAH = Sum of the HMW PAHs.

Total DDT = Sum of DDD, DDE, DDT.

NA = Not Applicable.

Max = Maximum detected concentration.

No Data = CPEC was not analyzed in the sample

"--" = in screening value column, compound not a CPEC in the matrix, or screening value not available. In HQ column, HQ not calculated.

An EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

mg/kg, dw = milligrams per kilogram, dry weight.

HQ > 1

^a The sediment CPECs cadmium, copper, lead, nickel, and zinc were evaluated separately using Simultaneously Extracted Metals- Acid Volatile Sulfide (SEM-AVS) methodologies. AVS concentrations exceeded SEM concentrations for these CPECs indicating that the metals are bound to AVS and not available to aquatic receptors. Consequently, these CPECs are not included in this risk estimation.

^bSediment is surface values (0-0.5 feet below ground surface [bgs]).

^c From Table U5-2 of the ERA (Appendix U) and Attachment 2.

Table U.A5-11
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Sitewide Surface Water
Based on Maximum Concentrations

CPEC	Sitewide (Pondwide) Surface Water								
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)
Inorganics									
Antimony	1.1	30	0.04	3.0	0.4	610	0.002	--	--
Arsenic	710	150	5	0.40	1775	48	15	340	0.4
Barium	200	4.0	50	2.3	87	1500000	0.00001	--	--
Beryllium	0.44	0.66	0.7	0.032	14	100000	0.000004	--	--
Cadmium	0.57	3.0	0.2	0.016	36	2.0	0.3	3.0	1
Chromium	97	250	0.4	0.30	323	397	0.2	794	0.3
Cobalt	0.0	23	0	0.50	0	60	0	--	--
Copper	21	13	2	0.010	2100	1.0	21	20	0.7
Lead	9.6	3.9	2	0.40	24	500	0.02	100	0.04
Manganese	2000	120	17	0.50	4000	4000	0.5	--	--
Mercury	0.21	0.77	0.3	0.010	21	5.0	0.04	1.4	0.6
Molybdenum	63	370	0.2	0.40	158	500	0.1	--	--
Nickel	2000	73	27	0.020	100000	5.0	400	660	0.1
Selenium	2900	5.0	580	0.90	3222	100	29	290	0.02
Silver	0.46	0.36	1	0.041	11	30	0.02	6.5	0.06
Thallium	1.0	12	0.08	0.10	10	100	0.01	--	--
Tin	No Data	73	--	0.020	--	100000	--	--	--
Vanadium	63	20	3	0.030	2100	200	0.3	--	--
Zinc	98	170	0.6	0.047	2085	30	3	165	1
Polycyclic Aromatic Hydrocarbons (PAHs)									
Benz(a)anthracene	0.010	0.027	0.4	870	0.00001	850	0.00001	--	--
Benz(a)pyrene	0.013	0.014	0.9	870	0.00001	850	0.00002	--	--
Benz(b)fluoranthene	0.0	0.029	0	870	0	850	0	--	--
Benz(g,h,i)perylene	0.0	0.10	0	870	0	850	0	--	--
Dibenzo(a,h)anthracene	0.013	7.5	0.002	870	0.00001	850	0.00002	--	--
Naphthalene	0.016	12	0.001	21	0.0008	33000	0.0000005	--	--
Total LMW PAH	0.016	12	0.001	21	0.0008	33000	0.0000005	--	--
Total HMW PAH	0.036	0.014	3	870	0.00004	850	0.00004	--	--
Semi-Volatile Organic Compounds (SVOCs)									
Bis(2-chloroethyl)ether	0.020	61	0.0003	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	51	3.0	17	39	1	3200	0.02	--	--
N-Nitrosodiemethylamine	0.19	--	--	--	--	--	--	--	--
N-Nitrosodipropylamine	0.49	210	0.002	--	--	--	--	--	--
N-Nitrosopyrrolidine	1.5	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)									
1,1-Dichloroethane	1.3	47	0.03	0.20	7	--	--	--	--
1,2-Dibromoethane (EDB)	0.012	1400	0.000009	--	--	--	--	--	--
Acetone	18	1500	0.01	20	0.9	122	0.1	--	--
Acetonitrile	No Data	76	--	116	--	--	--	--	--
Carbon disulfide	0.43	0.92	0.5	1.2	0.4	--	--	--	--
Ethylene glycol	No Data	2000	--	3260	--	546000	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--	--	--
Methylene chloride	7.0	2200	0.003	122	0.06	--	--	--	--
Nonanal	0.0	--	--	--	--	--	--	--	--
Propanal	14	--	--	--	--	7960	0.002	--	--
Trichloroethylene	1.3	360	0.004	450	0.003	317	0.004	--	--

CPEC = Chemical of Potential Ecological Concern.

HQ = Hazard Quotient (unitless).

Total LMW PAH = Sum of the LMW PAHs.

Total HMW PAH = Sum of the HMW PAHs.

Total DDT = Sum of DDD, DDE, DDT.

NA = Not Applicable.

Max = Maximum detected concentration.

No Data = CPEC was not analyzed in the sample.

-- = in screening value column, compound not a CPEC in the matrix, or screening value not available. In HQ column, HQ not calculated.

An EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

ug/L = micrograms per liter

HQ > 1

^a From Table U5-3 of the ERA (Appendix U) and Attachment 2

Table U.A5-12
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Stormwater Impoundment Surface Water
Based on Maximum Concentrations

CPEC	Stormwater Impoundments						
	Surface Water EPC ($\mu\text{g/L}$)	Selected Surface Water Screening ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Amphibian Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Plant Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)
Inorganics							
Antimony	1.0	30	0.03	3.0	0.3	610	0.002
Arsenic	710	150	5	0.40	1775	48	15
Barium	190	4.0	48	2.3	83	15000000	0.00001
Beryllium	0.44	0.66	0.7	0.032	14	100000	0.00004
Cadmium	0.20	3.0	0.07	0.016	13	2.0	0.1
Chromium	92	250	0.4	0.30	307	397	0.2
Cobalt	0.0	23	0	0.50	0	60	0
Copper	6.1	13	0.5	0.010	610	1.0	6
Amenable Cyanide	0.0	--	--	--	--	--	--
Total Cyanide	0.0	--	--	--	--	--	--
Lead	9.6	3.9	2	0.40	24	500	0.02
Manganese	530	120	4	0.50	1060	4000	0.1
Mercury	0.21	0.77	0.3	0.010	21	5.0	0.04
Molybdenum	47	370	0.1	0.40	118	500	0.09
Nickel	2000	73	27	0.020	100000	5.0	400
Selenium	2900	5.0	580	0.90	3222	100	29
Sulfide	0.0	--	--	--	--	--	--
Silver	0.0	0.36	0	0.041	0	30	0
Thallium	0.0	12	0	0.10	0	100	0
Tin	No Data	73	--	0.020	--	100000	--
Vanadium	63	20	3	0.030	2100	200	0.3
Zinc	98	170	0.6	0.047	2085	30	3
Dioxins/Furans							
1,2,3,4,6,7,8-HxCDD	0.0	--	--	--	--	--	--
1,2,3,4,6,7,8-HxCDF	0.0	--	--	--	--	--	--
1,2,3,4,7,8,9-HxCDF	0.0	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	0.0	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	0.0	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	0.0	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	0.0	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	0.0	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	0.0	--	--	--	--	--	--
1,2,3,7,8-PeCDD	0.0	--	--	--	--	--	--
1,2,3,7,8-PeCDF	0.0	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	0.0	--	--	--	--	--	--
2,3,4,7,8-PeCDF	0.0	--	--	--	--	--	--
2,3,7,8-TCDD	0.0	0.000010	0	--	--	--	--
2,3,7,8-TCDF	0.0	--	--	--	--	--	--
OCDD	0.0	--	--	--	--	--	--
OCDF	0.0	--	--	--	--	--	--
Total HpCDD	0.0	--	--	--	--	--	--
Total HpCDF	0.0	--	--	--	--	--	--
Total HxCDD	0.0	--	--	--	--	--	--
Total HxCDF	0.0	--	--	--	--	--	--
Total PeCDD	0.0	--	--	--	--	--	--
Total PeCDF	0.0	--	--	--	--	--	--
Total TCDD	0.0	0.0	#DIV/0!	0.0	#DIV/0!	--	--
Total TCDF	0.0	0.0	#DIV/0!	--	--	--	--
Total Avian TEQ	0.0	NA	--	--	--	NA	--
Total Fish Dioxin TEQ	0.0	0.000010	0	NA	#VALUE!	NA	#VALUE!
Total Mammalian TEQ	0.0	NA	--	--	--	NA	
Herbicides							
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	--	--	--	--	--	--
Dalapon	0.0	--	--	--	--	--	--
Dichlorprop	0.0	--	--	--	--	--	--
MCDA	0.0	--	--	--	--	--	--
MCPP	0.0	--	--	--	--	--	--

Table U.A5-12
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Stormwater Impoundment Surface Water
Based on Maximum Concentrations

CPEC	Stormwater Impoundments						
	Surface Water EPC ($\mu\text{g/L}$)	Selected Surface Water Screening ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Amphibian Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Plant Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)
Polycyclic Aromatic Hydrocarbons (PAHs)							
2-Methylnaphthalene	0.0	--	--	--	--	--	--
Acenaphthene	0.0	--	--	--	--	--	--
Anthracene	0.0	--	--	--	--	--	--
Benzo(a)anthracene	0.0	0.027	0	870	0	850	0
Benzo(a)pyrene	0.013	0.014	0.9	870	0.00001	850	0.00002
Benzo(b)fluoranthene	0.0	0.029	0	870	0	850	0
Benzo(g,h,i)perylene	0.0	0.10	0	870	0	850	0
Benzo(k)fluoranthene	0.0	--	--	--	--	--	--
Chrysene	0.0	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.0	7.5	0	870	0	850	0
Fluoranthene	0.0	--	--	--	--	--	--
Fluorene	0.0	--	--	--	--	--	--
Indeno(1,2,3-c,d)pyrene	0.0	--	--	--	--	--	--
Naphthalene	0.016	12	0.001	21	0.0008	33000	0.0000005
Phenanthere	0.0	--	--	--	--	--	--
Pyrene	0.0	--	--	--	--	--	--
Total LMW PAH	0.016	12	0.001	21	0.0008	33000	0.0000005
Total HMW PAH	0.013	0.014	0.9	870	0.00001	850	0.00002
Polychlorinated Biphenyls (PCBs)							
Aroclor 1260	0.0	--	--	--	--	--	--
Sum of PCB Congeners	0.0	--	--	--	--	--	--
Pesticides							
4,4'-DDD	0.0	--	--	--	--	--	--
4,4'-DDE	0.0	--	--	--	--	--	--
4,4'-DDT	0.0	--	--	--	--	--	--
Total DDT	No Data	--	0	--	0	--	0
Chlordane, alpha	0.0	--	--	--	--	--	--
Endosulfan I	0.0	--	--	--	--	--	--
Endosulfan II	0.0	--	--	--	--	--	--
Endosulfan sulfate	0.0	--	--	--	--	--	--
Endrin	0.0	--	--	--	--	--	--
Heptachlor	0.0	--	--	--	--	--	--
Hexachlorobenzene	0.0	--	--	--	--	--	--
Kepone	0.0	--	--	--	--	--	--
Methoxychlor	0.0	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)							
Bis(2-chloroethyl)ether	0.020	61	0.0003	--	--	--	--
Bis(2-ethylhexyl)phthalate	0.0	3.0	0	39	0	3200	0
Diethylphthalate	0.0	--	--	--	--	--	--
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--
N-Nitrosodipropylamine	0.0	210	0	--	--	--	--
N-Nitrosopyrrolidine	0.55	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	0.0	--	--	--	--	--	--
1,1-Dichloroethane	0.0	47	0	0.20	0	--	--
1,1-Dichloroethylene	0.0	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	0.012	1400	0.000009	--	--	--	--
1,2-Dichloroethene	0.0	--	--	--	--	--	--
Acetone	No Data	1500	--	20	--	122	--
Acetonitrile	No Data	76	--	116	--	--	--
Acrolein	0.0	--	--	--	--	--	--
Benzene	0.0	--	--	--	--	--	--
Carbon disulfide	0.0	0.92	0	1.2	0	--	--

Table U.A5-12
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Stormwater Impoundment Surface Water
Based on Maximum Concentrations

CPEC	Stormwater Impoundments						
	Surface Water EPC ($\mu\text{g/L}$)	Selected Surface Water Screening ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Amphibian Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Plant Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)
Diisopropyl ether	0.0	--	--	--	--	--	--
Ethylbenzene	0.0	--	--	--	--	--	--
Ethylene glycol	No Data	2000	--	3260	--	546000	--
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	--	--	--	--	--	--
Isopropanol	0.0	--	--	--	--	--	--
Methyl ethyl ketone	0.0	--	--	--	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--
Methylcyclopentane	0.0	--	--	--	--	--	--
Methylene chloride	7.0	2200	0.003	122	0.06	--	--
Nonanal	0.0	--	--	--	--	--	--
Propanal	0.0	--	--	--	--	7960	0
Tert-Butyl alcohol (TBA)	0.0	--	--	--	--	--	--
Tetrachloroethylene	0.0	--	--	--	--	--	--
Tetrahydrofuran	0.0	--	--	--	--	--	--
Toluene	0.0	--	--	--	--	--	--
Trichloroethylene	0.0	360	0	450	0	317	0

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	A-Series Pond									
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)	
Inorganics										
Antimony	1.0	30	0.033	3.0	0.33	610	0.0016	--	--	
Arsenic	290	150	1.9	0.40	725	48	6.0	340	0.0057	
Barium	140	4.0	35	2.3	61	15000000	0.0000093	--	--	
Beryllium	0.019	0.66	0.029	0.032	0.60	100000	0.00000019	--	--	
Cadmium	0.20	3.0	0.067	0.016	13	2.0	0.10	3.0	0.022	
Chromium	30	250	0.12	0.30	100	397	0.076	794	0.00015	
Cobalt	0.0	23	0.0	0.50	0.0	60	0.0	--	--	
Copper	6.1	13	0.47	0.010	610	1.0	6.1	20	0.024	
Lead	0.0	3.9	0.0	0.40	0.0	500	0.0	100	0.0	
Manganese	530	120	4.4	0.50	1060	4000	0.13	--	--	
Mercury	0.21	0.77	0.27	0.010	21	5.0	0.042	1.4	0.19	
Molybdenum	42	370	0.11	0.40	105	500	0.084	--	--	
Nickel	440	73	6.0	0.020	22000	5.0	88	660	0.0091	
Selenium	820	5.0	164	0.90	911	100	8.2	290	0.57	
Silver	0.0	0.36	0.0	0.041	0.0	30	0.0	6.5	0.0	
Thallium	0.0	12	0.0	0.10	0.0	100	0.0	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	63	20	3.2	0.030	2100	200	0.32	--	--	
Zinc	98	170	0.58	0.047	2085	30	3.3	165	0.0035	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.0	0.027	0.0	870	0.0	850	0.0	--	--	
Benzo(a)pyrene	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenzo(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--	
Naphthalene	0.013	12	0.0011	21	0.00062	33000	0.00000039	--	--	
Total LMW PAH	0.013	12	0.0011	21	0.00062	33000	0.00000039	--	--	
Total HMW PAH	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.020	61	0.00033	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	0.0	3.0	0.0	39	0.0	3200	0.0	--	--	
N-Nitrosodimethylamine	0.0	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.0	210	0.0	--	--	--	--	--	--	
N-Nitrosopyrrolidine	0.36	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--	
1,2-Dibromoethane (EDB)	0.012	1400	0.0000086	--	--	--	--	--	--	
Acetone	No Data	1500	--	20	--	122	--	--	--	
Acetonitrile	No Data	76	--	116	--	--	--	--	--	
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--	
Ethylene glycol	No Data	2000	--	3260	--	546000	--	--	--	
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--	--	--	
Methylene chloride	0.0	2200	0.0	122	0.0	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	0.0	--	--	--	--	7960	0.0	--	--	
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	RCF Pond								
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)
Inorganics									
Antimony	0.0	30	0.0	3.0	0.0	610	0.0	--	--
Arsenic	400	150	2.7	0.40	1000	48	8.3	340	0.0078
Barium	190	4.0	48	2.3	83	15000000	0.0000013	--	--
Beryllium	0.095	0.66	0.14	0.032	3.0	100000	0.00000095	--	--
Cadmium	0.0	3.0	0.0	0.016	0.0	2.0	0.0	3.0	0.0
Chromium	60	250	0.24	0.30	200	397	0.15	794	0.00030
Cobalt	0.0	23	0.0	0.50	0.0	60	0.0	--	--
Copper	0.0	13	0.0	0.010	0.0	1.0	0.0	20	0.0
Lead	9.6	3.9	2.5	0.40	24	500	0.019	100	0.025
Manganese	170	120	1.4	0.50	340	4000	0.043	--	--
Mercury	0.058	0.77	0.075	0.010	5.8	5.0	0.012	1.4	0.054
Molybdenum	47	370	0.13	0.40	118	500	0.094	--	--
Nickel	460	73	6.3	0.020	23000	5.0	92	660	0.0095
Selenium	1600	5.0	320	0.90	1778	100	16	290	1.1
Silver	0.0	0.36	0.0	0.041	0.0	30	0.0	6.5	0.0
Thallium	0.0	12	0.0	0.10	0.0	100	0.0	--	--
Tin	No Data	73	--	0.020	--	100000	--	--	--
Vanadium	0.0	20	0.0	0.030	0.0	200	0.0	--	--
Zinc	45	170	0.26	0.047	957	30	1.5	165	0.0016
Polycyclic Aromatic Hydrocarbons (PAHs)									
Benzo(a)anthracene	0.0	0.027	0.0	870	0.0	850	0.0	--	--
Benzo(a)pyrene	0.013	0.014	0.93	870	0.000015	850	0.000015	--	--
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--
Dibenzo(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--
Naphthalene	0.016	12	0.0013	21	0.00076	33000	0.00000048	--	--
Total LMW PAH	0.016	12	0.0013	21	0.00076	33000	0.00000048	--	--
Total HMW PAH	0.013	0.014	0.93	870	0.000015	850	0.000015	--	--
Semi-Volatile Organic Compounds (SVOCs)									
Bis(2-chloroethyl)ether	0.018	61	0.00030	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	0.0	3.0	0.0	39	0.0	3200	0.0	--	--
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--	--	--
N-Nitrosodipropylamine	0.0	210	0.0	--	--	--	--	--	--
N-Nitrosopyrrolidine	0.035	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)									
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--
1,2-Dibromoethane (EDB)	0.0054	1400	0.0000039	--	--	--	--	--	--
Acetone	No Data	1500	--	20	--	122	--	--	--
Acetonitrile	No Data	76	--	116	--	--	--	--	--
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--
Ethylene glycol	No Data	2000	--	3260	--	546000	--	--	--
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--	--	--
Methylene chloride	7.0	2200	0.0032	122	0.057	--	--	--	--
Nonanal	0.0	--	--	--	--	--	--	--	--
Propanal	0.0	--	--	--	--	7960	0.0	--	--
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	Pond A-5									
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)	
Inorganics										
Antimony	1.1	30	0.037	3.0	0.37	610	0.0018	--	--	
Arsenic	250	150	1.7	0.40	625	48	5.2	340	0.0049	
Barium	150	4.0	38	2.3	65	15000000	0.0000010	--	--	
Beryllium	0.35	0.66	0.53	0.032	11	100000	0.0000035	--	--	
Cadmium	0.0	3.0	0.0	0.016	0.0	2.0	0.0	3.0	0.0	
Chromium	97	250	0.39	0.30	323	397	0.24	794	0.00049	
Cobalt	0.0	23	0.0	0.50	0.0	60	0.0	--	--	
Copper	21	13	1.6	0.010	2100	1.0	21	20	0.082	
Lead	0.0	3.9	0.0	0.40	0.0	500	0.0	100	0.0	
Manganese	2000	120	17	0.50	4000	4000	0.50	--	--	
Mercury	0.092	0.77	0.12	0.010	9.2	5.0	0.018	1.4	0.085	
Molybdenum	63	370	0.17	0.40	158	500	0.13	--	--	
Nickel	540	73	7.4	0.020	27000	5.0	108	660	0.011	
Selenium	940	5.0	188	0.90	1044	100	9.4	290	0.65	
Silver	0.0	0.36	0.0	0.041	0.0	30	0.0	6.5	0.0	
Thallium	0.0	12	0.0	0.10	0.0	100	0.0	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	54	20	2.7	0.030	1800	200	0.27	--	--	
Zinc	79	170	0.46	0.047	1681	30	2.6	165	0.0028	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.0	0.027	0.0	870	0.0	850	0.0	--	--	
Benzo(a)pyrene	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenz(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--	
Naphthalene	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total LMW PAH	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total HMW PAH	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.0	61	0.0	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	51	3.0	17	39	1.3	3200	0.016	--	--	
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.49	210	0.0023	--	--	--	--	--	--	
N-Nitrosopyrrolidine	1.5	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	1.3	47	0.028	0.20	6.5	--	--	--	--	
1,2-Dibromoethane (EDB)	0.0028	1400	0.0000020	--	--	--	--	--	--	
Acetone	18	1500	0.012	20	0.91	122	0.15	--	--	
Acetonitrile	No Data	76	--	116	--	--	--	--	--	
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--	
Ethylene glycol	No Data	2000	--	3260	--	546000	--	--	--	
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--	--	--	
Methylene chloride	0.0	2200	0.0	122	0.0	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	12	--	--	--	--	7960	0.0015	--	--	
Trichloroethylene	1.3	360	0.0036	450	0.0029	317	0.0041	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	Pond 13									
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)	
Inorganics										
Antimony	0.0	30	0.0	3.0	0.0	610	0.0	--	--	
Arsenic	710	150	4.7	0.40	1775	48	15	340	0.014	
Barium	150	4.0	38	2.3	65	15000000	0.000010	--	--	
Beryllium	0.44	0.66	0.67	0.032	14	100000	0.000044	--	--	
Cadmium	0.0	3.0	0.0	0.016	0.0	2.0	0.0	3.0	0.0	
Chromium	92	250	0.37	0.30	307	397	0.23	794	0.00046	
Cobalt	0.0	23	0.0	0.50	0.0	60	0.0	--	--	
Copper	0.0	13	0.0	0.010	0.0	1.0	0.0	20	0.0	
Lead	0.0	3.9	0.0	0.40	0.0	500	0.0	100	0.0	
Manganese	490	120	4.1	0.50	980	4000	0.12	--	--	
Mercury	0.13	0.77	0.17	0.010	13	5.0	0.026	1.4	0.12	
Molybdenum	43	370	0.12	0.40	108	500	0.086	--	--	
Nickel	2000	73	27	0.020	100000	5.0	400	660	0.042	
Selenium	2900	5.0	580	0.90	3222	100	29	290	2.0	
Silver	0.0	0.36	0.0	0.041	0.0	30	0.0	6.5	0.0	
Thallium	0.0	12	0.0	0.10	0.0	100	0.0	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	0.0	20	0.0	0.030	0.0	200	0.0	--	--	
Zinc	30	170	0.18	0.047	638	30	1.0	165	0.0011	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.0	0.027	0.0	870	0.0	850	0.0	--	--	
Benzo(a)pyrene	0.013	0.014	0.93	870	0.000015	850	0.000015	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenz(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--	
Naphthalene	0.013	12	0.0011	21	0.00062	33000	0.0000039	--	--	
Total LMW PAH	0.013	12	0.0011	21	0.00062	33000	0.0000039	--	--	
Total HMW PAH	0.013	0.014	0.93	870	0.000015	850	0.000015	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.0	61	0.0	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	0.0	3.0	0.0	39	0.0	3200	0.0	--	--	
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.0	210	0.0	--	--	--	--	--	--	
N-Nitrosopyrrolidine	0.55	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--	
1,2-Dibromoethane (EDB)	0.0068	1400	0.000049	--	--	--	--	--	--	
Acetone	No Data	1500	--	20	--	122	--	--	--	
Acetonitrile	No Data	76	--	116	--	--	--	--	--	
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--	
Ethylene glycol	No Data	2000	--	3260	--	546000	--	--	--	
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--	--	--	
Methylene chloride	1.5	2200	0.00068	122	0.012	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	0.0	--	--	--	--	7960	0.0	--	--	
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	Pond 18								AWQC for Aquatic Life (acute/CMC) ^b ($\mu\text{g/L}$)	HQ (unitless)
	Surface Water EPC ($\mu\text{g/L}$)	Selected Surface Water Screening ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Amphibian Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)	Selected Plant Screening Value ^a ($\mu\text{g/L}$)	HQ (unitless)			
Inorganics										
Antimony	0.64	30	0.021	3.0	0.21	610	0.0010	--	--	--
Arsenic	90	150	0.60	0.40	225	48	1.9	340	0.0018	
Barium	200	4.0	50	2.3	87	15000000	0.000013	--	--	
Beryllium	0.16	0.66	0.24	0.032	5.1	100000	0.0000016	--	--	
Cadmium	0.57	3.0	0.19	0.016	36	2.0	0.29	3.0	0.064	
Chromium	41	250	0.16	0.30	137	397	0.10	794	0.00021	
Cobalt	0.0	23	0.0	0.50	0.0	60	0.0	--	--	
Copper	10	13	0.77	0.010	1000	1.0	10	20	0.039	
Lead	0.12	3.9	0.031	0.40	0.30	500	0.00024	100	0.00031	
Manganese	290	120	2.4	0.50	580	4000	0.073	--	--	
Mercury	0.17	0.77	0.22	0.010	17	5.0	0.034	1.4	0.16	
Molybdenum	61	370	0.16	0.40	153	500	0.12	--	--	
Nickel	330	73	4.5	0.020	16500	5.0	66	660	0.0069	
Selenium	360	5.0	72	0.90	400	100	3.6	290	0.25	
Silver	0.46	0.36	1.3	0.041	11	30	0.015	6.5	0.20	
Thallium	1.0	12	0.083	0.10	10	100	0.010	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	34	20	1.7	0.030	1133	200	0.17	--	--	
Zinc	76	170	0.45	0.047	1617	30	2.5	165	0.0027	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.010	0.027	0.37	870	0.000011	850	0.000012	--	--	
Benzo(a)pyrene	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenz(a,h)anthracene	0.013	7.5	0.0017	870	0.000015	850	0.000015	--	--	
Naphthalene	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total LMW PAH	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total HMW PAH	0.023	0.014	1.6	870	0.000026	850	0.000027	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.0	61	0.0	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	0.0	3.0	0.0	39	0.0	3200	0.0	--	--	
N-Nitrosodiethylamine	0.19	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.0	210	0.0	--	--	--	--	--	--	
N-Nitrosopyrrolidine	0.0	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	0.44	47	0.0094	0.20	2.2	--	--	--	--	
1,2-Dibromoethane (EDB)	0.0	1400	0.0	--	--	--	--	--	--	
Acetone	No Data	1500	--	20	--	122	--	--	--	
Acetonitrile	No Data	76	--	116	--	--	--	--	--	
Carbon disulfide	0.43	0.92	0.47	1.2	0.36	--	--	--	--	
Ethylene glycol	No Data	2000	--	3260	--	546000	--	--	--	
Methyl isobutyl ketone (MIBK)	No Data	170	--	--	--	410	--	--	--	
Methylene chloride	0.50	2200	0.00023	122	0.0041	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	14	--	--	--	--	7960	0.0018	--	--	
Trichloroethylene	1.2	360	0.0033	450	0.0027	317	0.0038	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	North Drainage								
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)
Inorganics									
Antimony	0.63	30	0.021	3.0	0.21	610	0.0010	--	--
Arsenic	23	150	0.15	0.40	58	48	0.48	340	0.00045
Barium	100	4.0	25	2.3	43	15000000	0.0000067	--	--
Beryllium	1.6	0.66	2.4	0.032	51	100000	0.000016	--	--
Cadmium	4.2	3.0	1.4	0.016	266	2.0	2.1	3.0	0.47
Chromium	10	250	0.040	0.30	33	397	0.025	794	0.000050
Cobalt	11	23	0.48	0.50	22	60	0.18	--	--
Copper	7.0	13	0.54	0.010	700	1.0	7.0	20	0.027
Lead	20	3.9	5.1	0.40	50	500	0.040	100	0.051
Manganese	1400	120	12	0.50	2800	4000	0.35	--	--
Mercury	0.050	0.77	0.065	0.010	5.0	5.0	0.010	1.4	0.046
Molybdenum	68	370	0.18	0.40	170	500	0.14	--	--
Nickel	35	73	0.48	0.020	1750	5.0	7.0	660	0.00073
Selenium	120	5.0	24	0.90	133	100	1.2	290	0.083
Silver	1.0	0.36	2.8	0.041	24	30	0.033	6.5	0.43
Thallium	1.0	12	0.083	0.10	10	100	0.010	--	--
Tin	No Data	73	--	0.020	--	100000	--	--	--
Vanadium	160	20	8.0	0.030	5333	200	0.80	--	--
Zinc	170	170	1.0	0.047	3617	30	5.7	165	0.0061
Polycyclic Aromatic Hydrocarbons (PAHs)									
Benzo(a)anthracene	0.011	0.027	0.41	870	0.000013	850	0.000013	--	--
Benzo(a)pyrene	0.016	0.014	1.1	870	0.000018	850	0.000019	--	--
Benzo(b)fluoranthene	0.057	0.029	2.0	870	0.000066	850	0.000067	--	--
Benzo(g,h,i)perylene	0.016	0.10	0.16	870	0.000018	850	0.000019	--	--
Dibenzo(a,h)anthracene	0.022	7.5	0.0029	870	0.000025	850	0.000026	--	--
Naphthalene	0.0	12	0.0	21	0.0	33000	0.0	--	--
Total LMW PAH	0.0	12	0.0	21	0.0	33000	0.0	--	--
Total HMW PAH	0.12	0.014	8.7	870	0.00014	850	0.00014	--	--
Semi-Volatile Organic Compounds (SVOCs)									
Bis(2-chloroethyl)ether	0.092	61	0.0015	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	1.6	3.0	0.53	39	0.041	3200	0.00050	--	--
N-Nitrosodiethylamine	0.067	--	--	--	--	--	--	--	--
N-Nitrosodipropylamine	0.086	210	0.00041	--	--	--	--	--	--
N-Nitrosopyrrolidine	0.094	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)									
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--
1,2-Dibromoethane (EDB)	0.0	1400	0.0	--	--	--	--	--	--
Acetone	320	1500	0.21	20	16	122	2.6	--	--
Acetonitrile	0.0	76	0.0	116	0.0	--	--	--	--
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--
Ethylene glycol	4000	2000	2.0	3260	1.2	546000	0.0073	--	--
Methyl isobutyl ketone (MIBK)	490	170	2.9	--	--	410	1.2	--	--
Methylene chloride	0.0	2200	0.0	122	0.0	--	--	--	--
Nonanal	0.91	--	--	--	--	--	--	--	--
Propanal	0.0	--	--	--	--	7960	0.0	--	--
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	A Drainage									
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)	
Inorganics										
Antimony	0.0	30	0.0	3.0	0.0	610	0.0	--	--	
Arsenic	1.8	150	0.012	0.40	4.5	48	0.038	340	0.00035	
Barium	23	4.0	5.8	2.3	10	15000000	0.0000015	--	--	
Beryllium	0.030	0.66	0.045	0.032	0.95	100000	0.0000030	--	--	
Cadmium	0.10	3.0	0.033	0.016	6.3	2.0	0.050	3.0	0.011	
Chromium	0.0	250	0.0	0.30	0.0	397	0.0	794	0.0	
Cobalt	0.0	23	0.0	0.50	0.0	60	0.0	--	--	
Copper	0.0	13	0.0	0.010	0.0	1.0	0.0	20	0.0	
Lead	0.15	3.9	0.038	0.40	0.38	500	0.00030	100	0.00038	
Manganese	0.0	120	0.0	0.50	0.0	4000	0.0	--	--	
Mercury	0.0	0.77	0.0	0.010	0.0	5.0	0.0	1.4	0.0	
Molybdenum	14	370	0.038	0.40	35	500	0.028	--	--	
Nickel	6.3	73	0.086	0.020	315	5.0	1.3	660	0.00013	
Selenium	1.0	5.0	0.20	0.90	1.1	100	0.010	290	0.00069	
Silver	0.0	0.36	0.0	0.041	0.0	30	0.0	6.5	0.0	
Thallium	0.0	12	0.0	0.10	0.0	100	0.0	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	0.0	20	0.0	0.030	0.0	200	0.0	--	--	
Zinc	3.8	170	0.022	0.047	81	30	0.13	165	0.00014	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.0	0.027	0.0	870	0.0	850	0.0	--	--	
Benzo(a)pyrene	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenz(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--	
Naphthalene	0.030	12	0.0025	21	0.0014	33000	0.0000091	--	--	
Total LMW PAH	0.030	12	0.0025	21	0.0014	33000	0.0000091	--	--	
Total HMW PAH	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.0	61	0.0	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	0.0	3.0	0.0	39	0.0	3200	0.0	--	--	
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.050	210	0.00024	--	--	--	--	--	--	
N-Nitrosopyrrolidine	0.0	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--	
1,2-Dibromoethane (EDB)	0.0	1400	0.0	--	--	--	--	--	--	
Acetone	0.0	1500	0.0	20	0.0	122	0.0	--	--	
Acetonitrile	0.0	76	0.0	116	0.0	--	--	--	--	
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--	
Ethylene glycol	4100	2000	2.1	3260	1.3	546000	0.0075	--	--	
Methyl isobutyl ketone (MIBK)	0.0	170	0.0	--	--	410	0.0	--	--	
Methylene chloride	0.0	2200	0.0	122	0.0	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	0.0	--	--	--	--	7960	0.0	--	--	
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	Upper C Drainage								AWQC for Aquatic Life (acute/CMC) ^b (µg/L)	HQ (unitless)
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)			
Inorganics										
Antimony	0.0	30	0.0	3.0	0.0	610	0.0	--	--	--
Arsenic	6.4	150	0.043	0.40	16	48	0.13	340	0.00013	
Barium	55	4.0	14	2.3	24	1500000	0.0000037	--	--	
Beryllium	0.050	0.66	0.076	0.032	1.6	100000	0.0000050	--	--	
Cadmium	0.15	3.0	0.050	0.016	9.5	2.0	0.075	3.0	0.017	
Chromium	2.1	250	0.0084	0.30	7.0	397	0.0053	794	0.000011	
Cobalt	0.90	23	0.039	0.50	1.8	60	0.015	--	--	
Copper	0.0	13	0.0	0.010	0.0	1.0	0.0	20	0.0	
Lead	0.32	3.9	0.082	0.40	0.80	500	0.00064	100	0.00082	
Manganese	23	120	0.19	0.50	46	4000	0.0058	--	--	
Mercury	0.0	0.77	0.0	0.010	0.0	5.0	0.0	1.4	0.0	
Molybdenum	22	370	0.059	0.40	55	500	0.044	--	--	
Nickel	18	73	0.25	0.020	900	5.0	3.6	660	0.00037	
Selenium	5.8	5.0	1.2	0.90	6.4	100	0.058	290	0.0040	
Silver	0.0	0.36	0.0	0.041	0.0	30	0.0	6.5	0.0	
Thallium	0.23	12	0.019	0.10	2.3	100	0.0023	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	40	20	2.0	0.030	1333	200	0.20	--	--	
Zinc	8.2	170	0.048	0.047	174	30	0.27	165	0.00029	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.010	0.027	0.37	870	0.000011	850	0.000012	--	--	
Benzo(a)pyrene	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenzo(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--	
Naphthalene	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total LMW PAH	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total HMW PAH	0.010	0.014	0.71	870	0.000011	850	0.000012	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.0	61	0.0	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	0.0	3.0	0.0	39	0.0	3200	0.0	--	--	
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.068	210	0.00032	--	--	--	--	--	--	
N-Nitrosopyrrolidine	0.0	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--	
1,2-Dibromoethane (EDB)	0.0	1400	0.0	--	--	--	--	--	--	
Acetone	0.0	1500	0.0	20	0.0	122	0.0	--	--	
Acetonitrile	0.0	76	0.0	116	0.0	--	--	--	--	
Carbon disulfide	0.0	0.92	0.0	1.2	0.0	--	--	--	--	
Ethylene glycol	5300	2000	2.7	3260	1.6	546000	0.0097	--	--	
Methyl isobutyl ketone (MIBK)	0.0	170	0.0	--	--	410	0.0	--	--	
Methylene chloride	0.0	2200	0.0	122	0.0	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	0.0	--	--	--	--	7960	0.0	--	--	
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC	Lower C Drainage									
	Surface Water EPC (µg/L)	Selected Surface Water Screening ^a (µg/L)	HQ (unitless)	Selected Amphibian Screening Value ^a (µg/L)	HQ (unitless)	Selected Plant Screening Value ^a (µg/L)	HQ (unitless)	AWQC for Aquatic Life (acute/CM C) ^b (µg/L)	HQ (unitless)	
Inorganics										
Antimony	0.42	30	0.014	3.0	0.14	610	0.00069	--	--	
Arsenic	9.0	150	0.060	0.40	23	48	0.19	340	0.00018	
Barium	48	4.0	12	2.3	21	15000000	0.00000032	--	--	
Beryllium	0.020	0.66	0.030	0.032	0.63	100000	0.00000020	--	--	
Cadmium	0.18	3.0	0.060	0.016	11	2.0	0.090	3.0	0.020	
Chromium	1.8	250	0.0072	0.30	6.0	397	0.0045	794	0.0000091	
Cobalt	1.3	23	0.057	0.50	2.6	60	0.022	--	--	
Copper	1.0	13	0.077	0.010	100	1.0	1.0	20	0.0039	
Lead	0.58	3.9	0.15	0.40	1.5	500	0.0012	100	0.0015	
Manganese	140	120	1.2	0.50	280	4000	0.035	--	--	
Mercury	0.0	0.77	0.0	0.010	0.0	5.0	0.0	1.4	0.0	
Molybdenum	30	370	0.081	0.40	75	500	0.060	--	--	
Nickel	22	73	0.30	0.020	1100	5.0	4.4	660	0.00046	
Selenium	6.2	5.0	1.2	0.90	6.9	100	0.062	290	0.0043	
Silver	0.020	0.36	0.056	0.041	0.49	30	0.0067	6.5	0.0086	
Thallium	0.31	12	0.026	0.10	3.1	100	0.0031	--	--	
Tin	No Data	73	--	0.020	--	100000	--	--	--	
Vanadium	40	20	2.0	0.030	1333	200	0.20	--	--	
Zinc	7.6	170	0.045	0.047	162	30	0.25	165	0.00027	
Polycyclic Aromatic Hydrocarbons (PAHs)										
Benzo(a)anthracene	0.011	0.027	0.41	870	0.000013	850	0.000013	--	--	
Benzo(a)pyrene	0.0	0.014	0.0	870	0.0	850	0.0	--	--	
Benzo(b)fluoranthene	0.0	0.029	0.0	870	0.0	850	0.0	--	--	
Benzo(g,h,i)perylene	0.0	0.10	0.0	870	0.0	850	0.0	--	--	
Dibenz(a,h)anthracene	0.0	7.5	0.0	870	0.0	850	0.0	--	--	
Naphthalene	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total LMW PAH	0.0	12	0.0	21	0.0	33000	0.0	--	--	
Total HMW PAH	0.011	0.014	0.79	870	0.000013	850	0.000013	--	--	
Semi-Volatile Organic Compounds (SVOCs)										
Bis(2-chloroethyl)ether	0.016	61	0.00026	--	--	--	--	--	--	
Bis(2-ethylhexyl)phthalate	1.3	3.0	0.43	39	0.034	3200	0.00041	--	--	
N-Nitrosodiethylamine	0.0	--	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	0.10	210	0.00048	--	--	--	--	--	--	
N-Nitrosopyrrolidine	0.0	--	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)										
1,1-Dichloroethane	0.0	47	0.0	0.20	0.0	--	--	--	--	
1,2-Dibromoethane (EDB)	0.0	1400	0.0	--	--	--	--	--	--	
Acetone	1100	1500	0.73	20	56	122	9.0	--	--	
Acetonitrile	3700	76	49	116	32	--	--	--	--	
Carbon disulfide	0.59	0.92	0.64	1.2	0.49	--	--	--	--	
Ethylene glycol	6400	2000	3.2	3260	2.0	546000	0.012	--	--	
Methyl isobutyl ketone (MIBK)	0.0	170	0.0	--	--	410	0.0	--	--	
Methylene chloride	0.0	2200	0.0	122	0.0	--	--	--	--	
Nonanal	0.0	--	--	--	--	--	--	--	--	
Propanal	0.0	--	--	--	--	7960	0.0	--	--	
Trichloroethylene	0.0	360	0.0	450	0.0	317	0.0	--	--	

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC = Chemical of Potential Ecological Concern.

HQ = Hazard Quotient (unitless).

Total LMW PAH = Sum of the LMW PAHs.

Total HMW PAH = Sum of the HMW PAHs.

Total DDT = Sum of DDD, DDE, DDT.

NA = Not Applicable.

Max = Maximum detected concentration.

No Data = CPEC was not analyzed in the sample

"--" = in screening value column, compound not a CPEC in the matrix, or screening value not available. In HQ column, HQ not calculated.

An EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

ug/L = micrograms per liter

HQ > 1

^c From Table U5-3 of the ERA (Appendix U) and Attachment 2.

Table U.A5-14a
Sitewide (with Ponds A-5 and 18) Terrestrial Areas and Pondwide Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

Sitewide CPEC	Soil (mg/kg, dw)		Sediment ^b	Surface Water	Plants	Terrestrial Invertebrates	Aquatic Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	mg/l	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a									
Antimony	0.0	0.0	0.0	0.0048	0.0	0.0	0.0	0.0	0.0
Arsenic	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0
Barium	12000	12000	4400	0.056	1872	1092	5218	8.2	14
Beryllium	0.84	1.0	0.0	0.0014	0.59	0.038	0.0	0.0019	0.029
Cadmium	34	34	26	0.0035	4.3	137	80	1.5	1.5
Chromium	670	670	76	0.089	27	205	36	28	28
Cobalt	160	160	0.0	0.0	1.2	20	0.0	8.7	8.7
Copper	480	480	56	0.031	22	247	38	19	19
Total Cyanide	9.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lead	970	970	12	0.00034	13	207	0.79	23	23
Manganese	1500	5000	430	2.7	395	65	510	31	31
Mercury	0.43	0.43	0.050	0.00016	0.24	0.70	0.057	0.023	0.023
Molybdenum	15	15	21	0.056	66	2.5	25	0.76	20
Nickel	240	240	180	0.55	6.5	--	13	10	10
Selenium	15	15	15	1.6	10	6.8	18	1.8	1.8
Silver	0.0	0.0	0.0	0.00057	0.0	0.0	0.0	0.0	0.0
Thallium	2.1	2.8	0.67	0.0020	0.011	0.54	0.79	0.24	0.24
Tin	77	77	69	0.0013	15	13	82	0.65	4.6
Vanadium	51	140	0.0	0.12	0.68	2.1	0.0	0.63	0.63
Zinc	710	710	112	0.069	183	737	141	125	125
Dioxins/Furans									
Total Avian Dioxin TEQ	7.82E-05	7.82E-05	1.07E-06	7.24E-12	4.38E-07	4.79E-04	2.99E-06	6.89E-05	6.89E-05
Total Mammalian Dioxin TEQ	5.75E-05	5.75E-05	1.50E-06	2.17E-11	3.22E-07	3.33E-04	4.19E-06	4.91E-05	4.91E-05
Total Avian TEQ	No Data	No Data	No Data	No Data	0.0	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	0.0	No Data	No Data	No Data	No Data
Herbicides									
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.084	0.10	0.10	0.0	0.0	0.0	0.0	0.0	0.0
Dalapon	0.28	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0
MCPA	7.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MCPP	1400	1400	3.1	0.0	0.0	0.0	0.0	0.0	0.0

CSC

January 2011

Draft Wildlife Risk Tables_103007_max_f.jmc_Final RIR_v01.xls

Appendix U Attachment 5
Final Remedial Investigation Report

Table U.A5-14a
Sitewide (with Ponds A-5 and 18) Terrestrial Areas and Pondwide Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

Sitewide CPEC	Soil (mg/kg, dw)		Sediment ^b	Surface Water	Plants	Terrestrial Invertebrates	Aquatic Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	mg/l	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Polycyclic Aromatic Hydrocarbons (PAHs)									
2-Methylnaphthalene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acenaphthene	0.71	0.71	0.0	0.0	0.0051	1.0	0.0	0.0	0.0
Anthracene	0.33	0.33	0.0	0.0	0.16	0.80	0.0	0.0	0.0
Benzo(a)anthracene	0.19	0.19	0.0	0.000010	0.025	0.30	0.0	0.0	0.0
Benzo(a)pyrene	0.51	0.51	0.0	0.000013	0.066	0.68	0.0	0.0	0.0
Benzo(b)fluoranthene	0.057	0.32	0.0	0.0	0.099	0.15	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.21	0.21	0.0	0.0	0.062	0.62	0.0	0.0	0.0
Benzo(k)fluoranthene	0.55	0.55	0.0	0.0	0.069	1.4	0.0	0.0	0.0
Chrysene	0.95	0.95	0.011	0.0	0.065	2.2	0.0080	0.0	0.0
Dibeno(a,h)anthracene	0.0	0.0	0.0	0.000013	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.57	0.57	0.0	0.0	0.29	1.7	0.0	0.0	0.0
Fluorene	2.2	2.2	0.0027	0.0	0.0020	21	0.0013	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.045	0.045	0.0	0.0	0.0050	0.13	0.0	0.0	0.0
Naphthalene	1.2	1.2	0.017	0.000016	15	5.3	0.0064	0.0	0.0
Phenanthrene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pyrene	0.78	0.78	0.017	0.0	0.56	1.4	0.061	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)									
Aroclor 1260	3.7	8.0	0.099	0.0	0.036	24	1.2	0.61	0.00091
Sum of PCB Congeners	2.1	2.1	0.16	0.0	0.0094	11	2.0	0.28	0.00024
Total Avian PCB TEQ	3.70E-03	3.70E-03	1.09E-04	0.00E+00	1.68E-05	2.01E-03	1.32E-03	5.02E-05	4.21E-07
Total Mammalian PCB TEQ	3.21E-04	3.21E-04	1.16E-05	0.00E+00	1.46E-06	7.22E-05	1.41E-04	1.80E-06	3.65E-08
Pesticides									
4,4'-DDD	0.0	0.0	0.012	0.0	0.0	0.0	0.083	0.0	0.0
4,4'-DDE	0.031	0.031	0.0	0.0	0.0059	0.56	0.0	26	1.4
4,4'-DDT	3.1	3.1	0.0081	0.0	0.19	22	0.041	31	0.97
Total DDT	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Chlordane, alpha	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0089	0.0	0.0	0.0	0.034	0.0	0.0
Endrin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	3.1	3.1	0.00095	0.0	1.3	57	0.018	69	1.6
Kepone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methoxychlor	0.059	0.14	0.0	0.0	0.092	0.073	0.0	0.088	0.11

Table U.A5-14a
Sitewide (with Ponds A-5 and 18) Terrestrial Areas and Pondwide Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

Sitewide CPEC	Soil (mg/kg, dw)		Sediment ^b	Surface Water	Plants	Terrestrial Invertebrates	Aquatic Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	mg/l	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Semi-Volatile Organic Compounds (SVOCs)									
Bis(2-chloroethyl)ether	0.0	0.0	0.0	0.000020	0.0	0.0	0.0	0.0	0.0
Bis(2-ethylhexyl)phthalate	29	29	0.0	0.051	0.0	58	0.0	0.0	0.0
Diethylphthalate	20	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-Nitrosodiethylamine	0.0	0.0	0.0	0.00019	0.0	0.0	0.0	0.0	0.0
N-Nitrosodipropylamine	0.0	0.0	0.0	0.00049	0.0	0.0	0.0	0.0	0.0
N-Nitrosopyrrolidine	0.0	0.0	0.0	0.0015	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.46	4.3	0.052	0.0013	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.019	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0	0.000012	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.11	17	0.0058	0.0	0.0	0.0	0.0	0.0	0.0
Acetone	1.1	1.1	0.065	0.018	0.0	0.0	0.0	0.0	0.0
Acetonitrile	0.19	0.19	0.0	No Data	0.0	0.0	0.0	0.0	0.0
Acrolein	0.017	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.027	0.95	0.027	0.0	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.10	0.11	0.15	0.00043	0.0	0.0	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0040	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethylene glycol	0.0	0.0	0.0	No Data	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.62	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.087	0.087	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	0.36	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0	0.0	0.0	No Data	0.0	0.0	0.0	0.0	0.0
Methylcyclopentane	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.26	0.43	0.014	0.0070	0.0	0.0	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Propanal	1.3	1.3	0.0	0.014	0.0	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.040	0.060	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	3.4	560	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0081	0.18	0.0042	0.0	0.0	0.0	0.0	0.0	0.0
Toluene	0.0050	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	24	42	0.0	0.0013	0.0	0.0	0.0	0.0	0.0

Table U.A5-14b
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a						
Barium	12000	12000	1872	1092	8.2	14
Beryllium	0.84	1.0	0.59	0.038	0.0019	0.029
Cadmium	34	34	4.3	137	1.5	1.5
Chromium	670	670	27	205	28	28
Cobalt	160	160	1.2	20	8.7	8.7
Copper	480	480	22	247	19	19
Total Cyanide	9.8	9.8	0.0	0.0	0.0	0.0
Lead	970	970	47	207	23	23
Manganese	1500	5000	395	65	31	31
Mercury	0.43	0.43	0.24	0.70	0.023	0.023
Molybdenum	11	15	66	1.8	0.55	20
Nickel	240	240	6.5	--	10	10
Selenium	11	11	7.2	5.4	1.6	1.6
Thallium	2.1	2.8	0.011	0.54	0.24	0.24
Tin	77	77	15	13	0.65	4.6
Vanadium	51	140	0.68	2.1	0.63	0.63
Zinc	710	710	183	737	125	125
Dioxins/Furans						
Total Avian Dioxin TEQ	7.82E-05	7.82E-05	4.38E-07	4.79E-04	6.89E-05	6.89E-05
Total Mammalian Dioxin TEQ	5.75E-05	5.75E-05	3.22E-07	3.33E-04	4.91E-05	4.91E-05
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data	No Data
Herbicides						
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.084	0.10	0.0	0.0	0.0	0.0
Dalapon	0.28	0.28	0.0	0.0	0.0	0.0
MCPPA	7.0	19	0.0	0.0	0.0	0.0
MCPP	1400	1400	0.0	0.0	0.0	0.0

Table U.A5-14b
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	0.71	0.71	0.0051	1.0	0.0	0.0
Anthracene	0.33	0.33	0.16	0.80	0.0	0.0
Benzo(a)anthracene	0.19	0.19	0.025	0.30	0.0	0.0
Benzo(a)pyrene	0.51	0.51	0.066	0.68	0.0	0.0
Benzo(b)fluoranthene	0.057	0.32	0.099	0.15	0.0	0.0
Benzo(g,h,i)perylene	0.21	0.21	0.062	0.62	0.0	0.0
Benzo(k)fluoranthene	0.55	0.55	0.069	1.4	0.0	0.0
Chrysene	0.95	0.95	0.065	2.2	0.0	0.0
Fluoranthene	0.57	0.57	0.29	1.7	0.0	0.0
Fluorene	2.2	2.2	0.0020	21	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.045	0.045	0.0050	0.13	0.0	0.0
Naphthalene	1.2	1.2	15	5.3	0.0	0.0
Pyrene	0.78	0.78	0.56	1.4	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)						
Aroclor 1260	3.7	8.0	0.036	24	0.61	0.00091
Sum of PCB Congeners	2.1	2.1	0.0094	11	0.28	0.00024
Total Avian PCB TEQ	3.70E-03	3.70E-03	1.68E-05	2.01E-03	5.02E-05	4.21E-07
Total Mammalian PCB TEQ	3.21E-04	3.21E-04	1.46E-06	7.22E-05	1.80E-06	3.65E-08
Pesticides						
4,4'-DDE	0.031	0.031	0.0059	0.56	26	1.4
4,4'-DDT	3.1	3.1	0.19	22	31	0.97
Total DDT	No Data	No Data	No Data	No Data	No Data	No Data

CSC

January 2011

Draft Wildlife Risk Tables_103007_max_f,jmc_Final RIR_v01.xls

Appendix U Attachment 5
Final Remedial Investigation Report

Table U.A5-14b
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals (Invertivore)	Small Mammals (Herbivore)
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Hexachlorobenzene	3.1	3.1	1.3	57	69	1.6
Methoxychlor	0.059	0.14	0.092	0.073	0.088	0.11
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	29	29	0.0	58	0.0	0.0
Diethylphthalate	20	20	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	1.5	1.5	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.46	4.3	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.019	0.35	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.11	17	0.0	0.0	0.0	0.0
Acetone	1.1	1.1	0.0	0.0	0.0	0.0
Acetonitrile	0.19	0.19	0.0	0.0	0.0	0.0
Acrolein	0.017	0.017	0.0	0.0	0.0	0.0
Benzene	0.0051	0.95	0.0	0.0	0.0	0.0
Carbon disulfide	0.10	0.11	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.62	5.0	0.0	0.0	0.0	0.0
Isopropanol	0.087	0.087	0.0	0.0	0.0	0.0
Methyl ethyl ketone	0.36	0.36	0.0	0.0	0.0	0.0
Methylene chloride	0.26	0.43	0.0	0.0	0.0	0.0
Propanal	1.3	1.3	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.040	0.060	0.0	0.0	0.0	0.0
Tetrachloroethylene	3.4	560	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0081	0.18	0.0	0.0	0.0	0.0
Toluene	0.0050	0.32	0.0	0.0	0.0	0.0
Trichloroethylene	24	42	0.0	0.0	0.0	0.0

Table U.A5-14
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

ft bgs = feet below ground surface

HMW = High Molecular Weight

LMW = Low Molecular Weight

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

PCB = Polychlorinated Biphenyl

TEQ = Toxic Equivalent; Total TEQ = Total PCB TEQ + Total Dioxin TEQ

-- = No Bioaccumulation Factor; EPC not calculated.

mg/kg, dw = milligrams per kilogram, dry weight

mg/L = milligrams per liter

An EPC value of 0.0 indicates:

- a.) CPEC was not detected in the onsite media. Offsite detections resulted in inclusion of the compound if the frequency of detection was >5%.
- b.) Compound was not a CPEC in the matrix.

^a Surface water values for metals are total concentrations.

^bSediment is surface values (0-0.5 ft. bgs)

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCRA Canyon					
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Surface Water (0-5 ft bgs)	Plants (mg/L)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Inorganics^a						
Barium	12000	12000	0.19	1872	1092	14
Beryllium	0.74	0.79	0.00019	0.49	0.033	0.025
Cadmium	24	24	0.0047	3.5	104	1.3
Chromium	470	470	0.026	19	144	21
Cobalt	40	160	0.0	1.2	4.9	1.4
Copper	320	320	0.044	19	165	18
Total Cyanide	No Data	No Data	0.0	No Data	No Data	No Data
Lead	140	140	0.0017	4.2	43	9.6
Manganese	1500	5000	0.16	395	65	31
Mercury	0.39	0.39	0.00014	0.23	0.67	0.021
Molybdenum	4.8	15	0.086	66	0.81	20
Nickel	170	170	0.16	5.0	--	8.6
Selenium	5.6	5.6	0.74	3.4	3.3	1.3
Thallium	0.64	1.0	0.00014	0.0040	0.16	0.072
Tin	77	77	0.00033	15	13	0.77
Vanadium	46	46	0.070	0.22	1.9	0.57
Zinc	710	710	0.034	183	737	125
Dioxins/Furans						
Total Avian Dioxin TEQ	0.000013	0.000013	0.000000000011	0.000000075	0.000060	0.0000099
Total Mammalian Dioxin TEQ	0.0000060	0.0000060	0.000000000062	0.000000033	0.000023	0.0000041
Total Avian TEQ	No Data	No Data	0.0	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	0.0	No Data	No Data	No Data
Herbicides						
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	No Data	0.0	No Data	No Data	No Data
Dalapon	No Data	No Data	0.0	No Data	No Data	No Data
MCPA	No Data	No Data	0.0	No Data	No Data	No Data
CPP	No Data	No Data	0.0	No Data	No Data	No Data
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	0.0	0.079	0.0	0.034	0.0	0.0
Anthracene	0.013	0.013	0.0	0.013	0.031	0.0
Benzo(a)anthracene	0.0	0.010	0.0	0.0043	0.0	0.0
Benzo(a)pyrene	0.067	0.067	0.0	0.0091	0.089	0.0
Benzo(b)fluoranthene	0.0044	0.012	0.000054	0.0037	0.011	0.0
Benzo(g,h,i)perylene	0.043	0.043	0.0	0.0095	0.13	0.0
Benzo(k)fluoranthene	0.0094	0.0094	0.0	0.0021	0.024	0.0
Chrysene	0.017	0.034	0.0	0.0089	0.039	0.0
Fluoranthene	0.0024	0.014	0.0	0.0070	0.0073	0.0
Fluorene	0.0	0.10	0.0	0.028	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0054	0.010	0.0	0.0011	0.015	0.0
Naphthalene	0.015	0.017	0.0	0.21	0.066	0.0
Pyrene	0.083	0.083	0.0	0.060	0.15	0.0
Total LMW PAH	No Data	No Data	0.0	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	0.0	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)						
Aroclor 1260	0.096	0.096	0.0	0.00044	0.17	0.0042
Sum of PCB Congeners	0.012	0.012	0.0	0.000054	0.0098	0.00024
Total Avian PCB TEQ	0.0000089	0.0000089	0.0	0.000000041	0.00000055	0.000000014
Total Mammalian PCB TEQ	0.0000026	0.0000026	0.0	0.00000012	0.00000011	0.000000026

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCRA Canyon					
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Surface Water (0-5 ft bgs)	Plants (mg/L)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Pesticides						
4,4'-DDE	0.0047	0.0047	0.0	0.0014	0.11	9.1
4,4'-DDT	0.0061	0.0061	0.0	0.0017	0.10	0.61
Hexachlorobenzene	0.0025	0.0025	0.0	0.0011	0.046	0.055
Methoxychlor	0.0071	0.0071	0.0	0.0047	0.0088	0.011
Semi-Volatile Organic Compounds (SVOCs)						
Bis(2-ethylhexyl)phthalate	0.34	0.34	0.0	0.0	0.68	0.0
Diethylphthalate	0.21	0.91	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0019	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0020	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	0.0	No Data	No Data	No Data
Acetonitrile	No Data	No Data	0.0	No Data	No Data	No Data
Acrolein	No Data	No Data	0.0	No Data	No Data	No Data
Benzene	0.0018	0.0018	0.0	0.0	0.0	0.0
Carbon disulfide	0.039	0.11	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0	0.0
Isopropanol	No Data	No Data	0.0	No Data	No Data	No Data
Methyl ethyl ketone	No Data	No Data	0.0	No Data	No Data	No Data
Methylene chloride	0.0016	0.0019	0.0	0.0	0.0	0.0
Propanal	0.071	0.071	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	No Data	No Data	0.0	No Data	No Data	No Data
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0057	0.0057	0.0	0.0	0.0	0.0
Toluene	0.0	0.0026	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.013	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCRA Canyon					
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Surface Water (0-5 ft bgs)	Plants (mg/L)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC						
Herbicides						
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthylene	NAC	NAC	NAC	NAC	NAC	NAC
Pesticides						
4,4'-DDD	NAC	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC	NAC
Dieldrin	0.0037	0.0037	0.0	0.0032	0.054	0.065
Endosulfan I	0.0030	0.0030	0.0	0.0051	0.0064	0.0076
Endrin	NAC	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)						
Benzoic Acid	NAC	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	0.43	0.43	0.0	0.0	5.5	0.0
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylbenzylamine	NAC	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Liquid Treatment Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	330	330	51	30	0.39
Beryllium	0.62	0.62	0.41	0.028	0.021
Cadmium	34	34	4.3	137	1.5
Chromium	68	68	2.8	21	5.1
Cobalt	18	18	0.14	2.2	0.50
Copper	96	96	12	49	15
Total Cyanide	9.8	9.8	0.0	0.0	0.0
Lead	41	41	2.1	16	5.6
Manganese	450	1300	103	29	9.2
Mercury	0.065	0.070	0.090	0.37	0.0035
Molybdenum	6.9	8.6	38	1.2	11
Nickel	49	59	2.3	--	4.8
Selenium	1.7	2.6	1.5	1.4	0.81
Thallium	0.49	0.95	0.0038	0.13	0.055
Tin	72	72	14	12	0.72
Vanadium	46	140	0.68	1.9	0.57
Zinc	280	280	110	543	117
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000064	0.00000064	0.0000000036	0.0000016	0.00000035
Total Mammalian Dioxin TEQ	0.0000011	0.0000011	0.000000064	0.0000032	0.00000066
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.054	0.076	0.0	0.0	0.0
Dalapon	0.054	0.068	0.0	0.0	0.0
MCPA	0.82	19	0.0	0.0	0.0
MCPP	1400	1400	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.051	0.051	0.049	0.075	0.0
Anthracene	0.0089	0.0089	0.0094	0.022	0.0
Benz(a)anthracene	0.0067	0.0067	0.0034	0.011	0.0
Benz(a)pyrene	0.0077	0.0078	0.0011	0.010	0.0
Benz(b)fluoranthene	0.0093	0.0093	0.0029	0.024	0.0
Benz(g,h,i)perylene	0.0034	0.0034	0.00047	0.010	0.0
Benz(k)fluoranthene	0.0045	0.0045	0.0011	0.012	0.0
Chrysene	0.032	0.032	0.0086	0.073	0.0
Fluoranthene	0.011	0.011	0.0055	0.033	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0027	0.0027	0.00030	0.0077	0.0
Naphthalene	0.0078	0.0078	0.095	0.034	0.0
Pyrene	0.031	0.031	0.022	0.054	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.0069	0.0069	0.000031	0.0046	0.00012
Total Avian PCB TEQ	0.000013	0.000013	0.000000060	0.00000093	0.000000023
Total Mammalian PCB TEQ	0.0000011	0.0000011	0.000000052	0.000000034	0.0000000084

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Liquid Treatment Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.0022	0.0022	0.00081	0.054	5.9
4,4'-DDT	3.1	3.1	0.19	22	31
Hexachlorobenzene	3.1	3.1	1.3	57	69
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	1.7	1.7	0.0	3.4	0.0
Diethylphthalate	0.0	0.37	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0017	0.0	0.0	0.0
1,1-Dichloroethane	0.0025	0.0025	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.037	0.0	0.0	0.0
1,2-Dichloroethene	0.016	0.016	0.0	0.0	0.0
Acetone	0.20	0.20	0.0	0.0	0.0
Acetonitrile	0.19	0.19	0.0	0.0	0.0
Acrolein	0.0042	0.0042	0.0	0.0	0.0
Benzene	0.0024	0.0044	0.0	0.0	0.0
Carbon disulfide	0.0	0.011	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0036	1.4	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	0.0082	0.0082	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.040	0.060	0.0	0.0	0.0
Tetrachloroethylene	0.030	0.067	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.15	0.0	0.0	0.0
Toluene	0.0032	0.0032	0.0	0.0	0.0
Trichloroethylene	0.0031	0.0038	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Liquid Treatment Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	0.021	0.057	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	0.58	0.58	0.056	0.30	0.35
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	West Canyon Spray Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	280	280	44	25	0.33
Beryllium	0.72	0.72	0.46	0.032	0.023
Cadmium	20	20	3.2	90	1.2
Chromium	670	670	27	205	28
Cobalt	160	160	1.2	20	8.7
Copper	480	480	22	247	19
Total Cyanide	No Data	No Data	No Data	No Data	No Data
Lead	60	60	2.6	22	6.6
Manganese	1200	1200	95	56	25
Mercury	0.092	0.092	0.10	0.41	0.0050
Molybdenum	5.3	7.6	34	0.89	10
Nickel	240	240	6.5	--	10
Selenium	1.7	1.7	0.91	1.4	0.81
Thallium	0.52	0.95	0.0038	0.13	0.058
Tin	72	72	14	12	0.72
Vanadium	38	38	0.18	1.6	0.47
Zinc	450	450	143	634	121
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000053	0.0000053	0.000000030	0.000020	0.0000036
Total Mammalian Dioxin TEQ	0.0000061	0.0000061	0.000000034	0.000023	0.0000041
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	No Data	No Data	No Data	No Data
Dalapon	No Data	No Data	No Data	No Data	No Data
MCPA	No Data	No Data	No Data	No Data	No Data
MCPP	No Data	No Data	No Data	No Data	No Data
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0	0.0	0.0	0.0
Anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0044	0.00064	0.0	0.0
Benzo(b)fluoranthene	0.0043	0.0043	0.0013	0.011	0.0
Benzo(g,h,i)perylene	0.0079	0.014	0.0025	0.023	0.0
Benzo(k)fluoranthene	0.0	0.0059	0.0014	0.0	0.0
Chrysene	0.0054	0.0054	0.0030	0.012	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0038	0.012	0.0013	0.011	0.0
Naphthalene	0.010	0.010	0.12	0.044	0.0
Pyrene	0.0033	0.0033	0.0024	0.0058	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.026	0.026	0.00012	0.029	0.00071
Sum of PCB Congeners	0.0052	0.0052	0.000024	0.0032	0.000081
Total Avian PCB TEQ	0.0000032	0.0000032	0.000000014	0.00000013	0.000000034
Total Mammalian PCB TEQ	0.0000052	0.0000052	0.000000023	0.000000011	0.000000028

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	West Canyon Spray Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.0020	0.0020	0.00076	0.050	5.6
4,4'-DDT	0.0057	0.0057	0.0017	0.094	0.58
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Methoxychlor	0.0024	0.0024	0.0016	0.0030	0.0036
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	2.0	2.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	No Data	No Data	No Data	No Data	No Data
Acrolein	No Data	No Data	No Data	No Data	No Data
Benzene	0.0018	0.0018	0.0	0.0	0.0
Carbon disulfide	0.044	0.044	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0072	0.0072	0.0	0.0	0.0
Isopropanol	No Data	No Data	No Data	No Data	No Data
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methylene chloride	0.0012	0.0015	0.0	0.0	0.0
Propanal	0.25	0.25	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	No Data	No Data	No Data	No Data	No Data
Tetrachloroethylene	0.0029	0.10	0.0	0.0	0.0
Tetrahydrofuran	0.0081	0.0081	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	West Canyon Spray Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	0.0045	0.0045	0.00086	0.11	0.13
delta-BHC	0.0035	0.0035	0.0044	0.021	0.025
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Burial Trench Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	320	320	50	29	0.37
Beryllium	0.73	1.0	0.59	0.033	0.029
Cadmium	2.2	2.2	0.96	15	0.41
Chromium	48	270	11	15	4.0
Cobalt	8.2	8.2	0.062	1.0	0.18
Copper	23	96	12	12	12
Total Cyanide	0.0	0.42	0.0	0.0	0.0
Lead	14	14	1.2	6.8	3.5
Manganese	670	670	53	38	14
Mercury	0.030	0.030	0.056	0.28	0.0016
Molybdenum	5.1	6.2	27	0.86	8.2
Nickel	53	80	2.9	--	5.0
Selenium	11	11	7.2	5.4	1.6
Thallium	0.45	0.45	0.0018	0.12	0.050
Tin	51	51	10	8.6	0.51
Vanadium	47	47	0.23	2.0	0.58
Zinc	97	97	61	384	108
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000047	0.0000080	0.000000045	0.000017	0.0000031
Total Mammalian Dioxin TEQ	0.0000062	0.000011	0.000000064	0.000024	0.0000042
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.084	0.10	0.0	0.0	0.0
Dalapon	0.084	0.084	0.0	0.0	0.0
MCPA	0.0	0.71	0.0	0.0	0.0
MCPP	0.0	1.1	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.055	0.046	0.0	0.0
Anthracene	0.0	0.069	0.046	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.32	0.099	0.0	0.0
Benzo(g,h,i)perylene	0.0045	0.0045	0.00066	0.013	0.0
Benzo(k)fluoranthene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0050	0.87	0.061	0.011	0.0
Fluoranthene	0.0048	0.36	0.18	0.015	0.0
Fluorene	0.0	0.15	0.019	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0	0.16	2.0	0.0	0.0
Pyrene	0.0048	0.62	0.45	0.0084	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.016	0.016	0.000073	0.015	0.00037
Sum of PCB Congeners	0.028	0.028	0.00013	0.032	0.00081
Total Avian PCB TEQ	0.000012	0.000012	0.000000056	0.00000085	0.000000021
Total Mammalian PCB TEQ	0.000036	0.000036	0.00000016	0.00000016	0.000000039

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Burial Trench Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Pesticides					
4,4'-DDE	0.0	0.014	0.0033	0.0	0.0
4,4'-DDT	0.0080	0.063	0.010	0.13	0.72
Hexachlorobenzene	0.0023	0.0023	0.00097	0.042	0.051
Methoxychlor	0.0039	0.0039	0.0026	0.0048	0.0058
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.064	0.064	0.0	0.0	0.0
1,1-Dichloroethane	0.35	4.3	0.0	0.0	0.0
1,1-Dichloroethylene	0.017	0.034	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.015	0.0	0.0	0.0
Acetone	1.1	1.1	0.0	0.0	0.0
Acetonitrile	0.17	0.17	0.0	0.0	0.0
Acrolein	0.017	0.017	0.0	0.0	0.0
Benzene	0.0020	0.0055	0.0	0.0	0.0
Carbon disulfide	0.021	0.021	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.24	5.0	0.0	0.0	0.0
Isopropanol	0.067	0.067	0.0	0.0	0.0
Methyl ethyl ketone	0.36	0.36	0.0	0.0	0.0
Methylene chloride	0.0	0.032	0.0	0.0	0.0
Propanal	0.18	0.18	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.020	0.020	0.0	0.0	0.0
Tetrachloroethylene	0.33	0.33	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.046	0.0	0.0	0.0
Toluene	0.0032	0.0034	0.0	0.0	0.0
Trichloroethylene	24	24	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Burial Trench Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	(mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	0.022	0.022	0.0	0.0	0.0
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	0.34	0.34	0.0	0.0	0.0
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylethlamine	0.0051	0.0067	0.0	0.0	0.0
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Maintenance Shed Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	1300	1300	203	118	1.5
Beryllium	0.54	0.55	0.38	0.024	0.019
Cadmium	11	11	2.3	56	0.88
Chromium	300	300	12	92	15
Cobalt	7.4	7.4	0.056	0.90	0.16
Copper	170	170	15	88	16
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	970	970	13	207	23
Manganese	290	350	28	21	5.9
Mercury	0.22	0.22	0.17	0.56	0.012
Molybdenum	4.3	4.3	19	0.72	5.7
Nickel	86	86	3.0	--	6.2
Selenium	0.0	0.0	0.0	0.0	0.0
Thallium	1.9	1.9	0.0076	0.49	0.21
Tin	62	62	12	10	0.62
Vanadium	36	36	0.17	1.5	0.44
Zinc	350	350	124	584	119
Dioxins/Furans					
Total Avian Dioxin TEQ	0.000034	0.000034	0.00000019	0.00018	0.000027
Total Mammalian Dioxin TEQ	0.000019	0.000019	0.00000011	0.000090	0.000015
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0	0.0	0.0
Dalapon	0.0	0.0	0.0	0.0	0.0
MCPA	0.0	0.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0049	0.36	0.0	0.0
Anthracene	0.0048	0.0048	0.0058	0.012	0.0
Benzo(a)anthracene	0.0077	0.0077	0.0037	0.012	0.0
Benzo(a)pyrene	0.019	0.019	0.0027	0.025	0.0
Benzo(b)fluoranthene	0.0060	0.0076	0.0024	0.016	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Benzo(k)fluoranthene	0.018	0.018	0.0037	0.047	0.0
Chrysene	0.018	0.018	0.0061	0.041	0.0
Fluoranthene	0.011	0.012	0.0060	0.033	0.0
Fluorene	0.0039	0.0088	0.22	0.037	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.017	0.041	0.50	0.075	0.0
Pyrene	0.019	0.019	0.014	0.033	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.55	0.55	0.0025	1.8	0.045
Sum of PCB Congeners	0.064	0.064	0.00029	0.096	0.0024
Total Avian PCB TEQ	0.000026	0.000026	0.00000012	0.0000023	0.000000059
Total Mammalian PCB TEQ	0.0000074	0.0000074	0.00000034	0.00000043	0.000000011

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Maintenance Shed Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.010	0.010	0.0025	0.21	14
4,4'-DDT	0.081	0.081	0.012	0.94	3.1
Hexachlorobenzene	0.0063	0.0063	0.0027	0.12	0.14
Methoxychlor	0.017	0.017	0.011	0.021	0.025
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.47	0.47	0.0	0.94	0.0
Diethylphthalate	0.24	0.24	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	0.061	0.061	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0019	0.0019	0.0	0.0	0.0
Carbon disulfide	0.043	0.043	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0037	0.0066	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0	0.0	0.0
Propanal	1.3	1.3	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	0.0025	0.0060	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Toluene	0.0050	0.0050	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Maintenance Shed Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	0.0022	0.0022	0.32	0.050	0.0
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	0.41	0.41	0.0	0.0	0.0
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylalkylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Central Drainage Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	960	960	150	87	1.1
Beryllium	0.61	0.73	0.46	0.027	0.023
Cadmium	2.7	22	3.4	18	0.45
Chromium	75	75	3.1	23	5.5
Cobalt	7.6	9.5	0.071	0.93	0.16
Copper	64	64	10	33	14
Total Cyanide	0.0	0.30	0.0	0.0	0.0
Lead	28	28	1.7	12	4.7
Manganese	290	990	78	21	5.9
Mercury	0.43	0.43	0.24	0.70	0.023
Molybdenum	6.5	7.5	33	1.1	9.9
Nickel	52	89	3.1	--	4.9
Selenium	1.8	2.3	1.3	1.4	0.82
Thallium	0.61	0.61	0.0024	0.16	0.068
Tin	64	64	13	11	0.64
Vanadium	51	51	0.25	2.1	0.63
Zinc	170	170	83	461	113
Dioxins/Furans					
Total Avian Dioxin TEQ	0.000078	0.000078	0.00000044	0.00048	0.000069
Total Mammalian Dioxin TEQ	0.000058	0.000058	0.00000032	0.00033	0.000049
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.029	0.032	0.0	0.0	0.0
Dalapon	0.016	0.045	0.0	0.0	0.0
MCPA	1.8	1.8	0.0	0.0	0.0
MCPP	120	120	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.063	0.063	0.041	0.093	0.0
Anthracene	0.030	0.030	0.024	0.073	0.0
Benzo(a)anthracene	0.036	0.036	0.0092	0.057	0.0
Benzo(a)pyrene	0.081	0.081	0.011	0.11	0.0
Benzo(b)fluoranthene	0.057	0.057	0.018	0.15	0.0
Benzo(g,h,i)perylene	0.026	0.026	0.0053	0.076	0.0
Benzo(k)fluoranthene	0.40	0.40	0.053	1.0	0.0
Chrysene	0.097	0.097	0.017	0.22	0.0
Fluoranthene	0.29	0.29	0.15	0.88	0.0
Fluorene	0.097	0.097	0.028	0.93	0.0
Indeno(1,2,3-c,d)pyrene	0.015	0.015	0.0017	0.043	0.0
Naphthalene	0.060	0.070	0.85	0.26	0.0
Pyrene	0.39	0.39	0.28	0.68	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	3.2	3.2	0.015	20	0.50
Sum of PCB Congeners	0.23	0.23	0.0011	0.57	0.014
Total Avian PCB TEQ	0.00030	0.00030	0.0000013	0.000064	0.0000016
Total Mammalian PCB TEQ	0.000032	0.000032	0.0000015	0.0000032	0.00000079

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Central Drainage Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.033	0.37	0.038	0.43	1.8
Hexachlorobenzene	0.078	0.36	0.15	1.4	1.7
Methoxychlor	0.0056	0.0056	0.0037	0.0069	0.0083
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	29	29	0.0	58	0.0
Diethylphthalate	0.22	0.22	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	1.5	1.5	0.0	0.0	0.0
1,1-Dichloroethane	0.46	4.2	0.0	0.0	0.0
1,1-Dichloroethylene	0.019	0.35	0.0	0.0	0.0
1,2-Dichloroethene	0.084	2.1	0.0	0.0	0.0
Acetone	0.060	0.060	0.0	0.0	0.0
Acetonitrile	0.18	0.18	0.0	0.0	0.0
Acrolein	0.0089	0.0089	0.0	0.0	0.0
Benzene	0.0025	0.95	0.0	0.0	0.0
Carbon disulfide	0.018	0.018	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.62	4.7	0.0	0.0	0.0
Isopropanol	0.053	0.074	0.0	0.0	0.0
Methyl ethyl ketone	0.020	0.020	0.0	0.0	0.0
Methylene chloride	0.26	0.43	0.0	0.0	0.0
Propanal	0.023	0.023	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.021	0.040	0.0	0.0	0.0
Tetrachloroethylene	3.4	9.3	0.0	0.0	0.0
Tetrahydrofuran	0.0026	0.18	0.0	0.0	0.0
Toluene	0.0012	0.32	0.0	0.0	0.0
Trichloroethylene	0.65	5.9	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Central Drainage Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	0.0078	0.0078	0.32	0.18	0.0
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	0.019	0.019	0.0066	0.16	0.19
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	0.12	0.12	0.10	0.61	0.73
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	0.080	0.080	0.0077	0.041	0.049
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Administration Building Area				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	130	300	47	12	0.35
Beryllium	0.55	0.63	0.42	0.025	0.021
Cadmium	1.1	1.1	0.66	8.9	0.30
Chromium	27	32	1.3	8.3	2.6
Cobalt	6.0	6.0	0.045	0.73	0.12
Copper	14	14	5.5	7.2	11
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	0.0	0.0	0.0	0.0	0.0
Manganese	810	810	64	43	17
Mercury	0.038	0.069	0.089	0.31	0.0021
Molybdenum	2.4	5.4	24	0.40	7.2
Nickel	31	34	1.5	--	3.9
Selenium	1.4	1.4	0.74	1.2	0.75
Thallium	0.23	0.29	0.0012	0.059	0.026
Tin	38	58	12	6.4	0.58
Vanadium	30	38	0.18	1.3	0.37
Zinc	51	60	47	311	104
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000061	0.00000061	0.0000000034	0.0000015	0.00000033
Total Mammalian Dioxin TEQ	0.00000066	0.00000066	0.0000000037	0.0000017	0.00000036
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.021	0.034	0.0	0.0	0.0
Dalapon	0.28	0.28	0.0	0.0	0.0
MCPA	3.0	3.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0051	0.0051	0.35	0.0075	0.0
Anthracene	0.012	0.012	0.012	0.029	0.0
Benzo(a)anthracene	0.016	0.016	0.0057	0.025	0.0
Benzo(a)pyrene	0.015	0.015	0.0021	0.020	0.0
Benzo(b)fluoranthene	0.015	0.015	0.0047	0.039	0.0
Benzo(g,h,i)perylene	0.016	0.016	0.0030	0.047	0.0
Benzo(k)fluoranthene	0.014	0.014	0.0029	0.036	0.0
Chrysene	0.017	0.017	0.0059	0.039	0.0
Fluoranthene	0.013	0.013	0.0065	0.040	0.0
Fluorene	0.0070	0.0070	0.27	0.067	0.0
Indeno(1,2,3-c,d)pyrene	0.014	0.014	0.0015	0.040	0.0
Naphthalene	0.0042	0.0066	0.081	0.018	0.0
Pyrene	0.016	0.016	0.012	0.028	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.00012	0.00012	0.00000053	0.000018	0.00000045
Total Avian PCB TEQ	0.000000056	0.000000056	0.0000000025	0.0000000055	0.00000000014
Total Mammalian PCB TEQ	0.000000010	0.000000010	0.0000000047	0.00000000024	0.000000000012

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Administration Building Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)		Plants (mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0029	0.0029	0.0010	0.052	0.38
Hexachlorobenzene	0.0069	0.0069	0.0029	0.13	0.15
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0013	0.0	0.0	0.0
Acetone	0.040	0.078	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0035	0.0041	0.0	0.0	0.0
Carbon disulfide	0.0	0.0085	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.014	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.017	0.022	0.0	0.0	0.0
Tetrachloroethylene	0.0019	0.0020	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0026	0.0	0.0	0.0
Toluene	0.0	0.0017	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Administration Building Area				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Roadway Areas				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	550	550	86	50	0.64
Beryllium	0.64	0.75	0.47	0.029	0.024
Cadmium	13	13	2.5	64	0.96
Chromium	470	470	19	144	21
Cobalt	6.2	16	0.12	0.76	0.12
Copper	350	350	20	180	18
Total Cyanide	No Data	No Data	No Data	No Data	No Data
Lead	61	61	2.7	22	6.6
Manganese	320	960	76	23	6.6
Mercury	0.15	0.15	0.14	0.49	0.0081
Molybdenum	6.4	6.4	28	1.1	8.5
Nickel	170	170	5.0	--	8.6
Selenium	1.8	2.1	1.2	1.4	0.82
Thallium	0.57	0.84	0.0034	0.15	0.064
Tin	70	71	14	12	0.71
Vanadium	43	43	0.21	1.8	0.53
Zinc	360	360	126	590	119
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000018	0.00000018	0.0000000010	0.00000037	0.000000089
Total Mammalian Dioxin TEQ	0.0000011	0.0000011	0.0000000062	0.0000031	0.00000064
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	No Data	No Data	No Data	No Data
Dalapon	No Data	No Data	No Data	No Data	No Data
MCPA	No Data	No Data	No Data	No Data	No Data
MCPP	No Data	No Data	No Data	No Data	No Data
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.71	0.71	0.0051	1.0	0.0
Anthracene	0.33	0.33	0.16	0.80	0.0
Benzo(a)anthracene	0.19	0.19	0.025	0.30	0.0
Benzo(a)pyrene	0.22	0.22	0.029	0.29	0.0
Benzo(b)fluoranthene	0.0040	0.015	0.0047	0.010	0.0
Benzo(g,h,i)perylene	0.070	0.070	0.017	0.21	0.0
Benzo(k)fluoranthene	0.041	0.041	0.0074	0.11	0.0
Chrysene	0.95	0.95	0.065	2.2	0.0
Fluoranthene	0.57	0.57	0.29	1.7	0.0
Fluorene	2.2	2.2	0.0020	21	0.0
Indeno(1,2,3-c,d)pyrene	0.013	0.021	0.0023	0.037	0.0
Naphthalene	1.2	1.2	15	5.3	0.0
Pyrene	0.78	0.78	0.56	1.4	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	1.5	1.5	0.0068	7.1	0.18
Sum of PCB Congeners	0.35	0.35	0.0016	0.99	0.025
Total Avian PCB TEQ	0.00040	0.00040	0.0000018	0.000096	0.0000024
Total Mammalian PCB TEQ	0.000027	0.000027	0.0000012	0.0000025	0.00000062

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Roadway Areas				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.0011	0.0011	0.00048	0.030	4.0
4,4'-DDT	0.36	0.36	0.038	3.4	8.0
Hexachlorobenzene	0.0065	0.0065	0.0028	0.12	0.14
Methoxychlor	0.059	0.059	0.039	0.073	0.088
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	2.0	2.0	0.0	4.0	0.0
Diethylphthalate	0.19	3.1	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	No Data	No Data	No Data	No Data	No Data
Acrolein	No Data	No Data	No Data	No Data	No Data
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0
Isopropanol	No Data	No Data	No Data	No Data	No Data
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methylene chloride	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	No Data	No Data	No Data	No Data	No Data
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Roadway Areas				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	0.042	0.042	0.33	0.96	0.0
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	0.015	0.015	0.013	0.22	0.26
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Inorganics^a					
Barium	160	160	25	15	0.19
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	21	21	3.3	93	1.2
Chromium	28	28	1.1	8.6	2.7
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	44	44	8.6	22	13
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	9.8	9.8	0.95	5.1	3.0
Manganese	280	690	55	21	5.7
Mercury	0.040	0.040	0.066	0.31	0.0022
Molybdenum	21	21	93	3.5	28
Nickel	164	164	4.9	--	8.4
Selenium	9.4	9.4	6.0	4.8	1.5
Thallium	0.51	0.51	0.0020	0.13	0.057
Tin	47	53	11	7.9	0.53
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	112	112	66	402	110
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000035	0.00000035	0.0000000019	0.00000080	0.00000018
Total Mammalian Dioxin TEQ	0.00000030	0.00000030	0.0000000017	0.00000066	0.00000015
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.041	0.041	0.0	0.0	0.0
Dalapon	0.0	0.0	0.0	0.0	0.0
MCPA	0.0	0.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0	0.0	0.0	0.0
Anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Benzo(k)fluoranthene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0039	0.0039	0.048	0.017	0.0
Pyrene	0.0	0.0067	0.0048	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.024	0.00011	0.0	0.0
Sum of PCB Congeners	0.00019	0.00019	0.00000087	0.000036	0.00000089
Total Avian PCB TEQ	0.00000018	0.00000027	0.0000000012	0.0000000027	0.00000000068
Total Mammalian PCB TEQ	0.000000019	0.000000024	0.00000000011	0.00000000057	0.000000000028

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	(mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methylene chloride	0.0026	0.030	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylalkylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	750	1300	203	68	1.5
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	3.8	3.8	1.3	24	0.53
Chromium	42	49	2.0	13	3.6
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	29	31	7.5	15	13
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	9.5	12	1.1	4.9	2.9
Manganese	340	340	27	24	7.0
Mercury	0.050	0.050	0.075	0.34	0.0027
Molybdenum	6.3	6.3	28	1.1	8.3
Nickel	59	59	2.3	--	5.2
Selenium	2.7	2.7	1.5	1.9	0.96
Thallium	0.29	0.42	0.0017	0.074	0.032
Tin	40	59	12	6.7	0.59
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	80	83	56	360	107
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000038	0.00000038	0.0000000021	0.00000089	0.00000020
Total Mammalian Dioxin TEQ	0.00000022	0.00000022	0.0000000012	0.00000045	0.00000011
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	0.10	0.0	0.0	0.0
Dalapon	0.0	0.0	0.0	0.0	0.0
MCPA	0.0	0.0	0.0	0.0	0.0
MCPP	1.0	1.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0	0.0	0.0	0.0
Anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0088	0.0040	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0086	0.0027	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Benzo(k)fluoranthene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.011	0.026	0.0076	0.025	0.0
Fluoranthene	0.0	0.012	0.0060	0.0	0.0
Fluorene	0.0027	0.0027	0.61	0.026	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0	0.0080	0.098	0.0	0.0
Pyrene	0.017	0.032	0.023	0.030	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.099	0.13	0.00059	0.18	0.0044
Sum of PCB Congeners	0.16	0.16	0.00074	0.35	0.0087
Total Avian PCB TEQ	0.00011	0.00011	0.00000050	0.000017	0.00000041
Total Mammalian PCB TEQ	0.000012	0.000012	0.00000053	0.00000079	0.00000020

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0081	0.0081	0.0022	0.13	0.73
Hexachlorobenzene	0.00095	0.0017	0.00072	0.018	0.021
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.012	0.026	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0057	0.0	0.0	0.0
Acetone	0.065	0.065	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0052	0.0	0.0	0.0
Carbon disulfide	0.052	0.052	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.012	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.0029	0.012	0.0	0.0	0.0
Propanal	0.0	0.035	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.030	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0087	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	4400	4400	686	400	5.1
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	26	26	3.7	110	1.3
Chromium	76	76	3.1	23	5.6
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	56	56	9.5	29	14
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	0.0	0.0	0.0	0.0	0.0
Manganese	430	1500	119	28	8.8
Mercury	0.0	0.0	0.0	0.0	0.0
Molybdenum	15	15	66	2.5	20
Nickel	180	180	5.3	--	8.8
Selenium	7.0	7.0	4.4	3.9	1.4
Thallium	0.0	0.79	0.0032	0.0	0.0
Tin	0.0	49	9.8	0.0	0.0
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	110	110	65	400	109
Dioxins/Furans					
Total Avian Dioxin TEQ	0.000000043	0.000000043	0.0000000024	0.000000068	0.000000018
Total Mammalian Dioxin TEQ	0.000000096	0.000000096	0.0000000054	0.00000017	0.000000043
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0	0.0	0.0
Dalapon	0.0	0.0	0.0	0.0	0.0
MCPA	0.0	0.0	0.0	0.0	0.0
MCPP	2.0	2.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0	0.0	0.0	0.0
Anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Benzo(k)fluoranthene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0090	0.0090	0.11	0.040	0.0
Pyrene	0.0	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.0045	0.0045	0.000020	0.0026	0.000065
Total Avian PCB TEQ	0.0000065	0.0000065	0.00000029	0.00000036	0.000000089
Total Mammalian PCB TEQ	0.0000090	0.0000090	0.00000041	0.00000024	0.000000060

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	(mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.052	0.052	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0058	0.0058	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.027	0.027	0.0	0.0	0.0
Carbon disulfide	0.054	0.054	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.014	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methylene chloride	0.014	0.014	0.0	0.0	0.0
Propanal	0.0	0.018	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0042	0.0042	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylalkylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	85	95	15	7.7	0.11
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	4.8	4.8	1.5	29	0.60
Chromium	27	54	2.2	8.3	2.6
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	20	20	6.3	10	12
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	8.6	8.6	0.89	4.6	2.8
Manganese	180	180	14	15	3.7
Mercury	0.050	0.050	0.075	0.34	0.0027
Molybdenum	0.0	2.4	11	0.0	0.0
Nickel	86	86	3.0	--	6.2
Selenium	3.1	16	11	2.1	1.0
Thallium	0.0	0.34	0.0014	0.0	0.0
Tin	69	69	14	12	0.69
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	72	72	52	348	106
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000000088	0.000000041	0.0000000023	0.000000010	0.0000000032
Total Mammalian Dioxin TEQ	0.000000024	0.00000011	0.0000000062	0.000000033	0.000000094
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0	0.0	0.0
Dalapon	0.0	0.0	0.0	0.0	0.0
MCPA	0.0	0.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0	0.0	0.0	0.0
Anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Benzo(k)fluoranthene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.017	0.017	0.21	0.075	0.0
Pyrene	0.0	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.025	0.00011	0.0	0.0
Sum of PCB Congeners	0.0035	0.0035	0.000016	0.0019	0.000046
Total Avian PCB TEQ	0.0000035	0.0000035	0.000000016	0.000000015	0.0000000038
Total Mammalian PCB TEQ	0.0000051	0.0000051	0.000000023	0.000000011	0.0000000028

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.15	0.15	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methylene chloride	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylalkylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	200	200	31	18	0.23
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	8.1	8.1	1.9	44	0.76
Chromium	55	55	2.3	17	4.4
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	55	55	9.5	28	14
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	12	12	1.1	6.0	3.2
Manganese	130	240	19	12	2.7
Mercury	0.048	0.048	0.073	0.33	0.0026
Molybdenum	11	11	49	1.8	15
Nickel	120	120	3.9	--	7.3
Selenium	15	15	10	6.8	1.8
Thallium	0.67	0.67	0.0027	0.17	0.075
Tin	62	62	12	10	0.62
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	90	94	60	374	108
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000011	0.0000011	0.000000060	0.0000030	0.00000061
Total Mammalian Dioxin TEQ	0.0000015	0.0000015	0.000000084	0.0000045	0.00000089
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.045	0.045	0.0	0.0	0.0
Dalapon	0.0	0.0	0.0	0.0	0.0
MCPA	0.0	0.0	0.0	0.0	0.0
MCPP	3.1	3.1	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.0	0.0	0.0	0.0	0.0
Anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Benzo(k)fluoranthene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0024	0.0024	0.0018	0.0055	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0069	0.0069	0.084	0.030	0.0
Pyrene	0.0	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.0031	0.0031	0.000014	0.0016	0.000039
Total Avian PCB TEQ	0.0000049	0.0000049	0.00000022	0.00000025	0.000000061
Total Mammalian PCB TEQ	0.0000075	0.0000075	0.00000034	0.00000019	0.000000047

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0013	0.00055	0.0	0.0
Methoxychlor	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
Diethylphthalate	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0020	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.031	0.031	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0070	0.0	0.0	0.0
Isopropanol	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methylene chloride	0.0060	0.0060	0.0	0.0	0.0
Propanal	0.0	0.12	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.0	0.0	0.0	0.0
Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0036	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylalkylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Remaining On-site Areas				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	170	800	125	15	0.94
Beryllium	0.84	0.84	0.51	0.038	0.026
Cadmium	3.1	3.1	1.2	20	0.49
Chromium	41	130	5.3	13	3.5
Cobalt	12	15	0.11	1.5	0.30
Copper	21	150	14	11	12
Total Cyanide	0.0	0.62	0.0	0.0	0.0
Lead	37	37	2.0	15	5.3
Manganese	480	490	39	30	9.8
Mercury	0.034	0.088	0.10	0.30	0.0018
Molybdenum	11	11	49	1.8	15
Nickel	62	62	2.4	--	5.3
Selenium	1.6	3.5	2.0	1.3	0.79
Thallium	2.1	2.8	0.011	0.54	0.24
Tin	63	63	13	11	0.63
Vanadium	47	47	0.23	2.0	0.58
Zinc	75	78	54	353	106
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000031	0.0000031	0.000000017	0.000000000000000011	0.00010
Total Mammalian Dioxin TEQ	0.0000026	0.0000026	0.000000014	0.000000000000000059	0.000087
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0	0.0	0.0
Dalapon	0.014	0.018	0.0	0.0	0.0
MCPA	3.9	4.9	0.0	0.0	0.0
MCPP	0.0	0.92	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.13	0.13	0.022	0.19	0.0
Anthracene	0.0	0.0023	0.0033	0.0	0.0
Benzo(a)anthracene	0.12	0.12	0.019	0.19	0.0
Benzo(a)pyrene	0.51	0.51	0.066	0.68	0.0
Benzo(b)fluoranthene	0.017	0.017	0.0053	0.044	0.0
Benzo(g,h,i)perylene	0.0076	0.0076	0.0012	0.022	0.0
Benzo(k)fluoranthene	0.55	0.55	0.069	1.4	0.0
Chrysene	0.10	0.10	0.017	0.23	0.0
Fluoranthene	0.017	0.017	0.0085	0.052	0.0
Fluorene	0.034	0.034	0.069	0.33	0.0
Indeno(1,2,3-c,d)pyrene	0.0061	0.0061	0.00067	0.017	0.0
Naphthalene	0.011	0.026	0.32	0.048	0.0
Pyrene	0.48	0.48	0.35	0.84	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	3.7	8.0	0.036	38	0.95
Sum of PCB Congeners	0.012	0.082	0.00037	0.0013	0.000033
Total Avian PCB TEQ	0.0000050	0.00016	0.00000073	0.000000012	0.000000018
Total Mammalian PCB TEQ	0.0000013	0.000016	0.00000075	0.000000010	0.000000019

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Remaining On-site Areas				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.031	0.031	0.0059	0.56	26
4,4'-DDT	0.20	0.54	0.051	2.1	5.5
Hexachlorobenzene	0.0016	0.0016	0.00068	0.030	0.035
Methoxychlor	0.011	0.14	0.092	0.014	0.11
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.26	0.26	0.0	0.52	0.0
Diethylphthalate	0.27	0.27	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0	0.0	0.0	0.0	0.0
1,1-Dichloroethane	0.0	0.0014	0.0	0.0	0.0
1,1-Dichloroethylene	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.17	0.0	0.0	0.0
Acetone	0.042	0.22	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.0	0.0	0.0	0.0	0.0
Benzene	0.0051	0.0051	0.0	0.0	0.0
Carbon disulfide	0.010	0.017	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0025	0.0	0.0	0.0
Isopropanol	0.087	0.087	0.0	0.0	0.0
Methyl ethyl ketone	0.0058	0.022	0.0	0.0	0.0
Methylene chloride	0.0065	0.0065	0.0	0.0	0.0
Propanal	0.036	0.36	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.0	0.036	0.0	0.0	0.0
Tetrachloroethylene	0.0	0.074	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0031	0.0	0.0	0.0
Toluene	0.00052	0.0022	0.0	0.0	0.0
Trichloroethylene	0.0	0.25	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Remaining On-site Areas				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	0.012	0.038	0.0069	0.15	2.3
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	0.041	0.041	0.071	0.26	0.31
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	0.060	0.060	0.051	0.30	0.37
Heptachlor epoxide	0.069	0.11	0.043	2.8	3.3
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosodipropylamine	0.054	0.062	0.0	0.0	0.0
N-Nitrosomethylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	1.3	1.3	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Former Ponds and Pads Areas South of the PSCT				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Barium	3800	3800	593	346	4.4
Beryllium	0.62	0.76	0.48	0.028	0.024
Cadmium	7.0	7.0	1.8	39	0.71
Chromium	160	160	6.6	49	9.6
Cobalt	47	55	0.41	5.7	1.8
Copper	59	59	9.7	30	14
Total Cyanide	0.0	0.0	0.0	0.0	0.0
Lead	120	120	3.9	38	9.0
Manganese	1100	1300	103	53	23
Mercury	0.068	0.068	0.088	0.37	0.0037
Molybdenum	11	12	53	1.8	16
Nickel	130	130	4.1	--	7.5
Selenium	1.9	4.0	2.3	1.5	0.84
Thallium	1.1	1.1	0.0044	0.28	0.12
Tin	65	65	13	11	0.65
Vanadium	43	43	0.21	1.8	0.53
Zinc	160	160	80	452	112
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000054	0.0000054	0.000000030	0.000000000000000081	0.00016
Total Mammalian Dioxin TEQ	0.0000045	0.0000045	0.000000025	0.000000000000000043	0.00014
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.089	0.0	0.0	0.0
Dalapon	0.029	0.057	0.0	0.0	0.0
MCPA	7.0	7.0	0.0	0.0	0.0
MCPP	1.4	2.4	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	0.025	0.27	0.012	0.037	0.0
Anthracene	0.030	0.20	0.11	0.073	0.0
Benzo(a)anthracene	0.037	0.13	0.020	0.059	0.0
Benzo(a)pyrene	0.041	0.062	0.0085	0.055	0.0
Benzo(b)fluoranthene	0.040	0.055	0.017	0.10	0.0
Benzo(g,h,i)perylene	0.21	0.21	0.062	0.62	0.0
Benzo(k)fluoranthene	0.055	0.055	0.0096	0.14	0.0
Chrysene	0.039	0.22	0.027	0.089	0.0
Fluoranthene	0.025	0.060	0.030	0.076	0.0
Fluorene	0.032	0.16	0.018	0.31	0.0
Indeno(1,2,3-c,d)pyrene	0.045	0.045	0.0050	0.13	0.0
Naphthalene	0.022	0.025	0.31	0.097	0.0
Pyrene	0.16	0.22	0.16	0.28	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	1.7	1.7	0.0077	9.4	0.24
Sum of PCB Congeners	2.1	2.1	0.0094	13	0.33
Total Avian PCB TEQ	0.0037	0.0037	0.000017	0.00016	0.0000040
Total Mammalian PCB TEQ	0.00032	0.00032	0.000015	0.0000020	0.00000051

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Former Ponds and Pads Areas South of the PSCT				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Pesticides					
4,4'-DDE	0.00061	0.013	0.0031	0.018	2.9
4,4'-DDT	0.26	0.26	0.029	2.6	6.5
Hexachlorobenzene	0.00071	0.0062	0.0026	0.013	0.016
Methoxychlor	0.025	0.025	0.017	0.031	0.037
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate	0.36	0.36	0.0	0.72	0.0
Diethylphthalate	20	20	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	0.0040	0.0040	0.0	0.0	0.0
1,1-Dichloroethane	0.0024	2.3	0.0	0.0	0.0
1,1-Dichloroethylene	0.0030	0.020	0.0	0.0	0.0
1,2-Dichloroethene	0.11	17	0.0	0.0	0.0
Acetone	0.25	0.25	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Acrolein	0.014	0.014	0.0	0.0	0.0
Benzene	0.0023	0.084	0.0	0.0	0.0
Carbon disulfide	0.10	0.10	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0097	0.19	0.0	0.0	0.0
Isopropanol	0.068	0.068	0.0	0.0	0.0
Methyl ethyl ketone	0.024	0.024	0.0	0.0	0.0
Methylene chloride	0.0024	0.0024	0.0	0.0	0.0
Propanal	0.077	0.077	0.0	0.0	0.0
Tert-Butyl alcohol (TBA)	0.024	0.034	0.0	0.0	0.0
Tetrachloroethylene	0.062	560	0.0	0.0	0.0
Tetrahydrofuran	0.0025	0.0069	0.0	0.0	0.0
Toluene	0.0	0.013	0.0	0.0	0.0
Trichloroethylene	0.074	42	0.0	0.0	0.0

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Former Ponds and Pads Areas South of the PSCT				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Exposure Unit CPEC					
Herbicides					
2,4,5-TP (Silvex)	NAC	NAC	NAC	NAC	NAC
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	NAC	NAC	NAC	NAC	NAC
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthylene	NAC	NAC	NAC	NAC	NAC
Pesticides					
4,4'-DDD	NAC	NAC	NAC	NAC	NAC
Aldrin	NAC	NAC	NAC	NAC	NAC
alpha-BHC	NAC	NAC	NAC	NAC	NAC
Chlordane, gamma	NAC	NAC	NAC	NAC	NAC
delta-BHC	NAC	NAC	NAC	NAC	NAC
Dieldrin	NAC	NAC	NAC	NAC	NAC
Endosulfan I	NAC	NAC	NAC	NAC	NAC
Endrin	NAC	NAC	NAC	NAC	NAC
Heptachlor epoxide	NAC	NAC	NAC	NAC	NAC
Mirex	NAC	NAC	NAC	NAC	NAC
Semi-Volatile Organic Compounds (SVOCs)					
Benzoic Acid	NAC	NAC	NAC	NAC	NAC
Di-n-butylphthalate	NAC	NAC	NAC	NAC	NAC
N-Nitrosodimethylamine	0.067	0.067	0.0	0.0	0.0
N-Nitrosodipropylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosomethylalkylamine	NAC	NAC	NAC	NAC	NAC
N-Nitrosopyrrolidine	NAC	NAC	NAC	NAC	NAC

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Inorganics^a					
Antimony	0.0	0.0	0.0	0.0	0.0
Arsenic	0.0	0.0	0.0	0.0	0.0
Barium	160	160	25	15	0.19
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	21	21	3.3	93	1.2
Chromium	28	28	1.1	8.6	2.7
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	44	44	8.6	22	13
Lead	9.8	9.8	0.95	5.1	3.0
Manganese	280	690	55	21	5.7
Mercury	0.040	0.040	0.066	0.31	0.0022
Molybdenum	21	21	93	3.5	28
Nickel	164	164	4.9	--	8.4
Selenium	9.4	9.4	6.0	4.8	1.5
Silver	0.0	0.0	0.0	0.0	0.0
Thallium	0.51	0.51	0.0020	0.13	0.057
Tin	47	53	11	7.9	0.53
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	112	112	66	402	110
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000035	0.00000035	0.0000000019	0.00000080	0.00000018
Total Mammalian Dioxin TEQ	0.00000030	0.00000030	0.0000000017	0.00000066	0.00000015
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.041	0.041	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0	0.0
Dibenzo(a,h)anthracene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0039	0.0039	0.048	0.017	0.0
Phenanthrene	0.0	0.0	0.0	0.0	0.0
Pyrene	0.0	0.0067	0.0048	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.024	0.00011	0.0	0.0
Sum of PCB Congeners	0.00019	0.00019	0.00000087	0.000036	0.000000089
Total Avian PCB TEQ	0.00000018	0.00000027	0.0000000012	0.0000000027	0.00000000068
Total Mammalian PCB TEQ	0.000000019	0.000000024	0.00000000011	0.00000000057	0.000000000028

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Pesticides					
4,4'-DDD	0.0	0.0	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0	0.0	0.0
Endrin	0.0	0.0	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Kepone	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-chloroethyl)ether	0.0	0.0	0.0	0.0	0.0
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
N-Nitrosodiethylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosodipropylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosopyrrolidine	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.0	0.0	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0033	0.0	0.0	0.0
Ethylene glycol	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data	No Data	No Data
Methylcyclopentane	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.0026	0.030	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Antimony	0.0	0.0	0.0	0.0	0.0
Arsenic	0.0	0.0	0.0	0.0	0.0
Barium	750	1300	203	68	1.5
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	3.8	3.8	1.3	24	0.53
Chromium	42	49	2.0	13	3.6
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	29	31	7.5	15	13
Lead	9.5	12	1.1	4.9	2.9
Manganese	340	340	27	24	7.0
Mercury	0.050	0.050	0.075	0.34	0.0027
Molybdenum	6.3	6.3	28	1.1	8.3
Nickel	59	59	2.3	--	5.2
Selenium	2.7	2.7	1.5	1.9	0.96
Silver	0.0	0.0	0.0	0.0	0.0
Thallium	0.29	0.42	0.0017	0.074	0.032
Tin	40	59	12	6.7	0.59
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	80	83	56	360	107
Dioxins/Furans					
Total Avian Dioxin TEQ	0.00000038	0.00000038	0.0000000021	0.00000089	0.00000020
Total Mammalian Dioxin TEQ	0.00000022	0.00000022	0.0000000012	0.00000045	0.00000011
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	0.10	0.0	0.0	0.0
Dichlorprop	0.020	0.020	0.0	0.0	0.0
MCPP	1.0	1.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0088	0.0040	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0086	0.0027	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.011	0.026	0.0076	0.025	0.0
Dibenzo(a,h)anthracene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.012	0.0060	0.0	0.0
Fluorene	0.0027	0.0027	0.61	0.026	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0	0.0080	0.098	0.0	0.0
Phenanthrene	0.0	0.0	0.0	0.0	0.0
Pyrene	0.017	0.032	0.023	0.030	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.099	0.13	0.00059	0.18	0.0044
Sum of PCB Congeners	0.16	0.16	0.00074	0.35	0.0087
Total Avian PCB TEQ	0.00011	0.00011	0.00000050	0.000017	0.00000041
Total Mammalian PCB TEQ	0.000012	0.000012	0.00000053	0.00000079	0.000000020

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)	
Pesticides					
4,4'-DDD	0.012	0.012	0.0029	0.15	11
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0081	0.0081	0.0022	0.13	0.73
Chlordane, alpha	0.0	0.0032	0.00061	0.0	0.0
Endosulfan I	0.0	0.0013	0.0022	0.0	0.0
Endosulfan II	0.0	0.0068	0.011	0.013	0.0
Endosulfan sulfate	0.0089	0.0089	0.018	0.0027	0.021
Endrin	0.0	0.0031	0.0026	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.00095	0.0017	0.00072	0.018	0.021
Kepone	0.0	0.0032	0.0029	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-chloroethyl)ether	0.0	0.0	0.0	0.0	0.0
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
N-Nitrosodiethylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosodipropylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosopyrrolidine	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.012	0.026	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0057	0.0	0.0	0.0
Acetone	0.065	0.065	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0052	0.0	0.0	0.0
Carbon disulfide	0.052	0.052	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0032	0.0	0.0	0.0
Ethylene glycol	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.012	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.0	0.0	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0	0.0	0.0	0.0	0.0
Methylcyclopentane	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.0029	0.012	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.035	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.030	0.0	0.0	0.0
Trichloroethylene	0.0	0.0087	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Antimony	0.0	0.0	0.0	0.0	0.0
Arsenic	0.0	0.0	0.0	0.0	0.0
Barium	4400	4400	686	400	5.1
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	26	26	3.7	110	1.3
Chromium	76	76	3.1	23	5.6
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	56	56	9.5	29	14
Lead	0.0	0.0	0.0	0.0	0.0
Manganese	430	1500	119	28	8.8
Mercury	0.0	0.0	0.0	0.0	0.0
Molybdenum	15	15	66	2.5	20
Nickel	180	180	5.3	--	8.8
Selenium	7.0	7.0	4.4	3.9	1.4
Silver	0.0	0.0	0.0	0.0	0.0
Thallium	0.0	0.79	0.0032	0.0	0.0
Tin	0.0	49	9.8	0.0	0.0
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	110	110	65	400	109
Dioxins/Furans					
Total Avian Dioxin TEQ	0.000000043	0.000000043	0.0000000024	0.000000068	0.000000018
Total Mammalian Dioxin TEQ	0.000000096	0.000000096	0.0000000054	0.00000017	0.00000043
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0	0.0	0.0
MCPP	2.0	2.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0	0.0
Dibenzo(a,h)anthracene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0090	0.0090	0.11	0.040	0.0
Phenanthrene	0.0	0.0	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.0045	0.0045	0.000020	0.0026	0.000065
Total Avian PCB TEQ	0.0000065	0.0000065	0.000000029	0.00000036	0.000000089
Total Mammalian PCB TEQ	0.0000090	0.0000090	0.000000041	0.000000024	0.000000060

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	(mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Pesticides					
4,4'-DDD	0.0	0.0	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0	0.0	0.0
Endrin	0.0	0.0	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Kepone	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-chloroethyl)ether	0.0	0.0	0.0	0.0	0.0
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
N-Nitrosodiethylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosodipropylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosopyrrolidine	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.052	0.052	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0058	0.0058	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Benzene	0.027	0.027	0.0	0.0	0.0
Carbon disulfide	0.054	0.054	0.0	0.0	0.0
Diisopropyl ether	0.0040	0.0040	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0
Ethylene glycol	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.014	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data	No Data	No Data
Methylcyclopentane	0.28	0.28	0.0	0.0	0.0
Methylene chloride	0.014	0.014	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.018	0.0	0.0	0.0
Tetrahydrofuran	0.0042	0.0042	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Antimony	0.0	0.0	0.0	0.0	0.0
Arsenic	0.0	0.0	0.0	0.0	0.0
Barium	85	95	15	7.7	0.11
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	4.8	4.8	1.5	29	0.60
Chromium	27	54	2.2	8.3	2.6
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	20	20	6.3	10	12
Lead	8.6	8.6	0.89	4.6	2.8
Manganese	180	180	14	15	3.7
Mercury	0.050	0.050	0.075	0.34	0.0027
Molybdenum	0.0	2.4	11	0.0	0.0
Nickel	86	86	3.0	--	6.2
Selenium	3.1	16	11	2.1	1.0
Silver	0.0	0.0	0.0	0.0	0.0
Thallium	0.0	0.34	0.0014	0.0	0.0
Tin	69	69	14	12	0.69
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	72	72	52	348	106
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000000088	0.000000041	0.0000000023	0.000000010	0.0000000032
Total Mammalian Dioxin TEQ	0.000000024	0.00000011	0.0000000062	0.000000033	0.000000094
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0	0.0
Dibenzo(a,h)anthracene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.017	0.017	0.21	0.075	0.0
Phenanthrene	0.0	0.0	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.025	0.00011	0.0	0.0
Sum of PCB Congeners	0.0035	0.0035	0.000016	0.0019	0.000046
Total Avian PCB TEQ	0.0000035	0.0000035	0.000000016	0.00000015	0.000000038
Total Mammalian PCB TEQ	0.0000051	0.0000051	0.000000023	0.000000011	0.000000028

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	(mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Pesticides					
4,4'-DDD	0.0	0.0	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0	0.0	0.0
Endrin	0.0	0.0	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0	0.0
Kepone	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-chloroethyl)ether	0.0	0.0	0.0	0.0	0.0
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
N-Nitrosodiethylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosodipropylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosopyrrolidine	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.0	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.15	0.15	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0
Ethylene glycol	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data	No Data	No Data
Methylcyclopentane	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil (mg/kg, dw)		Plants	Terrestrial Invertebrates	Small Mammals
	(0-0.5 ft bgs)	(0-5 ft bgs)	(mg/kg, dw)	(mg/kg, dw)	(mg/kg, dw)
Inorganics^a					
Antimony	0.0	0.0	0.0	0.0	0.0
Arsenic	0.0	0.0	0.0	0.0	0.0
Barium	200	200	31	18	0.23
Beryllium	0.0	0.0	0.0	0.0	0.0
Cadmium	8.1	8.1	1.9	44	0.76
Chromium	55	55	2.3	17	4.4
Cobalt	0.0	0.0	0.0	0.0	0.0
Copper	55	55	9.5	28	14
Lead	12	12	1.1	6.0	3.2
Manganese	130	240	19	12	2.7
Mercury	0.048	0.048	0.073	0.33	0.0026
Molybdenum	11	11	49	1.8	15
Nickel	120	120	3.9	--	7.3
Selenium	15	15	10	6.8	1.8
Silver	0.0	0.0	0.0	0.0	0.0
Thallium	0.67	0.67	0.0027	0.17	0.075
Tin	62	62	12	10	0.62
Vanadium	0.0	0.0	0.0	0.0	0.0
Zinc	90	94	60	374	108
Dioxins/Furans					
Total Avian Dioxin TEQ	0.0000011	0.0000011	0.000000060	0.0000030	0.0000061
Total Mammalian Dioxin TEQ	0.0000015	0.0000015	0.000000084	0.0000045	0.0000089
Total Avian TEQ	No Data	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data	No Data
Herbicides					
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.045	0.045	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0	0.0	0.0
MCPP	3.1	3.1	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	0.0	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0	0.0
Chrysene	0.0024	0.0024	0.0018	0.0055	0.0
Dibenzo(a,h)anthracene	0.0	0.0	0.0	0.0	0.0
Fluoranthene	0.0	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0	0.0
Naphthalene	0.0069	0.0069	0.084	0.030	0.0
Phenanthrene	0.0	0.0	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)					
Aroclor 1260	0.0	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.0031	0.0031	0.000014	0.0016	0.000039
Total Avian PCB TEQ	0.0000049	0.0000049	0.000000022	0.00000025	0.000000061
Total Mammalian PCB TEQ	0.0000075	0.0000075	0.000000034	0.000000019	0.000000047

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18				
	Soil (mg/kg, dw) (0-0.5 ft bgs)	Plants (0-5 ft bgs)	(mg/kg, dw)	Terrestrial Invertebrates (mg/kg, dw)	Small Mammals (mg/kg, dw)
Pesticides					
4,4'-DDD	0.0	0.0	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0	0.0	0.0
Endrin	0.0	0.0	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0013	0.00055	0.0	0.0
Kepone	0.0	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)					
Bis(2-chloroethyl)ether	0.0	0.0	0.0	0.0	0.0
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0
N-Nitrosodiethylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosodipropylamine	0.0	0.0	0.0	0.0	0.0
N-Nitrosopyrrolidine	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs)					
1,1-Dichloroethane	0.0	0.0020	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data	No Data
Acetonitrile	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0
Carbon disulfide	0.031	0.031	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0
Ethylene glycol	0.0	0.0	0.0	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0070	0.0	0.0	0.0
Methyl ethyl ketone	No Data	No Data	No Data	No Data	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data	No Data	No Data
Methylcyclopentane	0.0	0.0	0.0	0.0	0.0
Methylene chloride	0.0060	0.0060	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0	0.0
Propanal	0.0	0.12	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0036	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond			
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Water Column Invert mg/kg dw	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a				
Antimony	0.0	0.00048	0.033	0.0
Arsenic	0.0	0.21	101	0.0
Barium	160	0.041	133	190
Beryllium	0.0	0.00051	0.0041	0.0
Cadmium	21	0.0	3.3	64
Chromium	28	0.032	429	13
Cobalt	0.0	0.0	0.0	0.0
Copper	44	0.030	108	35
Lead	9.8	0.00019	0.0	0.64
Manganese	280	0.32	10262	332
Mercury	0.040	0.00012	20	0.045
Molybdenum	21	0.044	813	25
Nickel	164	0.44	59	13
Selenium	9.4	0.90	4928	11
Silver	0.0	0.0	0.0	0.0
Thallium	0.51	0.0	0.0	0.60
Tin	47	0.0	0.0	56
Vanadium	0.0	0.11	1220	--
Zinc	112	0.020	2136	141
Dioxins/Furans				
Total Avian Dioxin TEQ	0.00000035	0.0	0.0	0.00000097
Total Mammalian Dioxin TEQ	0.00000030	0.0	0.0	0.00000083
Total Avian TEQ	No Data	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data	No Data
Herbicides				
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.041	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0	0.0
MCPP	0.0	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)				
2-Methylnaphthalene	0.0	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0	0.0
Dibenzo(a,h)anthracene	0.0	0.0	0.0	--
Fluoranthene	0.0	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0	0.0
Naphthalene	0.0039	0.000013	0.0022	0.0015
Phenanthrene	0.0	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)				
Aroclor 1260	0.0	0.0	0.0	0.0
Sum of PCB Congeners	0.00019	0.0	0.0	0.0023
Total Avian PCB TEQ	0.00000018	0.0	--	0.0000022
Total Mammalian PCB TEQ	0.000000019	0.0	--	0.000000024

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A-Series Pond			
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Water Column Invert mg/kg dw	Aquatic Invertebrates (mg/kg, dw)
Pesticides				
4,4'-DDD	0.0	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0	0.0
Endrin	0.0	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0	0.0
Kepone	0.0	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)				
Bis(2-chloroethyl)ether	0.0	0.000020	0.000078	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.0	0.0	--
N-Nitrosopyrrolidine	0.0	0.00036	0.000086	--
Volatile Organic Compounds (VOCs)				
1,1-Dichloroethane	0.0	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.000012	0.000016	0.0
1,2-Dichloroethene	0.0	0.0	0.0	0.0
Acetone	No Data	No Data	No Data	No Data
Acetonitrile	0.0	No Data	0.0	0.0
Benzene	0.0	0.0	0.0	0.0
Carbon disulfide	0.0	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0
Ethylene glycol	0.0	No Data	0.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0	0.0
Methyl ethyl ketone	No Data	0.0	No Data	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data	No Data
Methylcyclopentane	0.0	0.0	0.0	0.0
Methylene chloride	0.0026	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0	0.0
Propanal	0.0	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.0	0.0
Arsenic	0.0	0.19	0.0
Barium	750	0.041	890
Beryllium	0.0	0.0	0.0
Cadmium	3.8	0.0	12
Chromium	42	0.0	20
Cobalt	0.0	0.0	0.0
Copper	29	0.019	31
Lead	9.5	0.0	0.63
Manganese	340	0.16	403
Mercury	0.050	0.00011	0.057
Molybdenum	6.3	0.038	7.5
Nickel	59	0.12	6.2
Selenium	2.7	0.97	3.2
Silver	0.0	0.0	0.0
Thallium	0.29	0.0	0.34
Tin	40	0.0	47
Vanadium	0.0	0.097	--
Zinc	80	0.069	135
Dioxins/Furans			
Total Avian Dioxin TEQ	0.00000038	0.000000000025	0.0000011
Total Mammalian Dioxin TEQ	0.00000022	0.000000000075	0.00000060
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	0.0	0.0
Dichlorprop	0.020	0.0	0.0
MCPP	1.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.000013	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0
Chrysene	0.011	0.0	0.0080
Dibenz(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0	0.0	0.0
Fluorene	0.0027	0.0	0.0013
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0
Naphthalene	0.0	0.000016	0.0
Phenanthrene	0.0	0.0	0.0
Pyrene	0.017	0.0	0.061
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.099	0.0	1.2
Sum of PCB Congeners	0.16	0.0	2.0
Total Avian PCB TEQ	0.00011	0.0	0.0013
Total Mammalian PCB TEQ	0.000012	0.0	0.00014

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	RCF Pond		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.012	0.0	0.083
4,4'-DDE	0.0	0.0	0.0
4,4'-DDT	0.0081	0.0	0.041
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0089	0.0	0.034
Endrin	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0
Hexachlorobenzene	0.00095	0.0	0.018
Kepone	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.000018	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.0	--
N-Nitrosopyrrolidine	0.0	0.000035	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.012	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0000054	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	0.065	No Data	0.0
Acetonitrile	0.0	No Data	0.0
Benzene	0.0	0.0	0.0
Carbon disulfide	0.052	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	No Data	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0	No Data	0.0
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0029	0.0070	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.00045	0.0
Arsenic	0.0	0.33	0.0
Barium	4400	0.048	5218
Beryllium	0.0	0.0014	0.0
Cadmium	26	0.0035	80
Chromium	76	0.089	36
Cobalt	0.0	0.0	0.0
Copper	56	0.029	38
Lead	0.0	0.00021	0.0
Manganese	430	2.7	510
Mercury	0.0	0.00016	0.0
Molybdenum	15	0.048	18
Nickel	180	0.55	13
Selenium	7.0	1.4	8.3
Silver	0.0	0.00057	0.0
Thallium	0.0	0.0	0.0
Tin	0.0	0.0	0.0
Vanadium	0.0	0.075	--
Zinc	110	0.027	140
Dioxins/Furans			
Total Avian Dioxin TEQ	0.000000043	0.000000000072	0.00000012
Total Mammalian Dioxin TEQ	0.000000096	0.000000000022	0.00000027
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0
MCPP	2.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0
Dibenz(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0
Naphthalene	0.0090	0.0	0.0034
Phenanthrene	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	0.0	0.0
Sum of PCB Congeners	0.0045	0.0	0.054
Total Avian PCB TEQ	0.0000065	0.0	0.000079
Total Mammalian PCB TEQ	0.0000090	0.0	0.000011

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond A-5		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0
Endrin	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0
Kepone	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.0	--
Bis(2-ethylhexyl)phthalate	0.0	0.051	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.00049	--
N-Nitrosopyrrolidine	0.0	0.0015	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.052	0.0013	0.0
1,2-Dibromoethane (EDB)	0.0	0.0000028	0.0
1,2-Dichloroethene	0.0058	0.0	0.0
Acetone	No Data	0.018	No Data
Acetonitrile	0.0	No Data	0.0
Benzene	0.027	0.0	0.0
Carbon disulfide	0.054	0.0	0.0
Diisopropyl ether	0.0040	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	No Data	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	No Data	0.0	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data
Methylcyclopentane	0.28	0.0	0.0
Methylene chloride	0.014	0.0	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.0	0.012	0.0
Tetrahydrofuran	0.0042	0.0	0.0
Trichloroethylene	0.0	0.0013	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.0	0.0
Arsenic	0.0	0.31	0.0
Barium	85	0.056	101
Beryllium	0.0	0.00023	0.0
Cadmium	4.8	0.0	15
Chromium	27	0.016	13
Cobalt	0.0	0.0	0.0
Copper	20	0.024	28
Lead	8.6	0.0	0.57
Manganese	180	0.53	213
Mercury	0.050	0.00012	0.057
Molybdenum	0.0	0.038	0.0
Nickel	86	0.43	8.0
Selenium	3.1	1.6	3.7
Silver	0.0	0.00027	0.0
Thallium	0.0	0.0	0.0
Tin	69	0.0	82
Vanadium	0.0	0.12	--
Zinc	72	0.038	133
Dioxins/Furans			
Total Avian Dioxin TEQ	0.0000000088	0.000000000029	0.000000025
Total Mammalian Dioxin TEQ	0.000000024	0.000000000087	0.000000067
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0
MCPP	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.000013	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0
Chrysene	0.0	0.0	0.0
Dibenz(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0
Naphthalene	0.017	0.000013	0.0064
Phenanthrene	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	0.0	0.0
Sum of PCB Congeners	0.0035	0.0	0.042
Total Avian PCB TEQ	0.0000035	0.0	0.000042
Total Mammalian PCB TEQ	0.0000051	0.0	0.0000062

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 13		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0
Endrin	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0
Kepone	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.0	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.0	--
N-Nitrosopyrrolidine	0.0	0.000055	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0000068	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	No Data	No Data	No Data
Acetonitrile	0.0	No Data	0.0
Benzene	0.0	0.0	0.0
Carbon disulfide	0.15	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	No Data	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	No Data	0.0	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0	0.0015	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.0048	0.0
Arsenic	0.0	0.099	0.0
Barium	200	0.039	237
Beryllium	0.0	0.00071	0.0
Cadmium	8.1	0.0011	25
Chromium	55	0.041	26
Cobalt	0.0	0.0	0.0
Copper	55	0.031	37
Lead	12	0.00034	0.79
Manganese	130	0.33	154
Mercury	0.048	0.00014	0.055
Molybdenum	11	0.056	13
Nickel	120	0.34	10
Selenium	15	0.43	18
Silver	0.0	0.00024	0.0
Thallium	0.67	0.0020	0.79
Tin	62	0.0013	74
Vanadium	0.0	0.040	--
Zinc	90	0.025	137
Dioxins/Furans			
Total Avian Dioxin TEQ	0.0000011	0.000000000022	0.0000030
Total Mammalian Dioxin TEQ	0.0000015	0.000000000065	0.0000042
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.045	0.0	0.0
Dichlorprop	0.0	0.0	0.0
MCPP	3.1	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.000010	0.0
Benzo(a)pyrene	0.0	0.0	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0
Chrysene	0.0024	0.0	0.0017
Dibenz(a,h)anthracene	0.0	0.000013	--
Fluoranthene	0.0	0.0	0.0
Fluorene	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0
Naphthalene	0.0069	0.0	0.0026
Phenanthrene	0.0	0.0	0.0
Pyrene	0.0	0.0	0.0
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	0.0	0.0
Sum of PCB Congeners	0.0031	0.0	0.037
Total Avian PCB TEQ	0.0000049	0.0	0.000060
Total Mammalian PCB TEQ	0.0000075	0.0	0.0000091

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Pond 18		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.0	0.0	0.0
4,4'-DDE	0.0	0.0	0.0
4,4'-DDT	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0
Endrin	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0
Hexachlorobenzene	0.0	0.0	0.0
Kepone	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.0	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.00019	--
N-Nitrosodipropylamine	0.0	0.0	--
N-Nitrosopyrrolidine	0.0	0.0	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.0	0.00044	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	No Data	No Data	No Data
Acetonitrile	0.0	No Data	0.0
Benzene	0.0	0.0	0.0
Carbon disulfide	0.031	0.00043	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	No Data	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	No Data	0.0	No Data
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0060	0.00050	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.0	0.014	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0012	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	North Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.15	0.0
Arsenic	0.0	0.047	0.0
Barium	98	1.1	116
Beryllium	0.0	0.0090	0.0
Cadmium	1.8	0.013	5.5
Chromium	29	0.38	14
Cobalt	0.0	0.063	0.0
Copper	10	0.16	23
Lead	8.8	0.063	0.58
Manganese	640	2.0	759
Mercury	0.033	0.00023	0.037
Molybdenum	6.3	0.077	7.5
Nickel	34	0.44	4.2
Selenium	3.5	0.096	4.2
Silver	0.0	0.00053	0.0
Thallium	0.26	0.0028	0.31
Tin	51	0.0044	60
Vanadium	0.0	0.31	--
Zinc	43	0.47	125
Dioxins/Furans			
Total Avian Dioxin TEQ	0.00000028	0.0000000065	0.00000078
Total Mammalian Dioxin TEQ	0.00000033	0.0000000091	0.00000091
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0
MCPP	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0010	0.0	0.00048
Benzo(a)anthracene	0.00045	0.000011	0.00064
Benzo(a)pyrene	0.00029	0.000016	0.00039
Benzo(b)fluoranthene	0.00068	0.000057	0.000039
Benzo(g,h,i)perylene	0.00052	0.000016	0.000062
Chrysene	0.00084	0.0	0.00061
Dibenz(a,h)anthracene	0.0	0.000022	--
Fluoranthene	0.0012	0.0	0.0041
Fluorene	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.00041	0.0	0.000082
Naphthalene	0.0	0.0	0.0
Phenanthrene	0.00075	0.0	0.00076
Pyrene	0.00092	0.0	0.0033
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	0.0	0.0
Sum of PCB Congeners	No Data	0.0	No Data
Total Avian PCB TEQ	No Data	0.0	No Data
Total Mammalian PCB TEQ	No Data	0.0	No Data

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	North Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.00090	0.0	0.0062
4,4'-DDE	0.00030	0.0	0.0027
4,4'-DDT	0.00054	0.0	0.0028
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.00027	0.0	0.0010
Endosulfan II	0.0011	0.0	0.0042
Endosulfan sulfate	0.0	0.0	0.0
Endrin	0.0	0.0	0.0
Heptachlor	0.00037	0.0	0.0032
Hexachlorobenzene	0.00058	0.0	0.011
Kepone	No Data	0.0	No Data
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.000092	--
Bis(2-ethylhexyl)phthalate	0.0	0.0016	--
N-Nitrosodiethylamine	0.0	0.000067	--
N-Nitrosodipropylamine	0.0	0.000086	--
N-Nitrosopyrrolidine	0.0	0.000094	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	0.0	0.32	0.0
Acetonitrile	0.0	0.0	0.0
Benzene	0.0	0.0	0.0
Carbon disulfide	0.0	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0069	0.0	0.0
Ethylene glycol	0.0	4.0	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0	0.49	0.0
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0
Nonanal	0.0	0.00091	0.0
Propanal	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.0	0.0
Arsenic	0.0	0.0023	0.0
Barium	120	0.035	142
Beryllium	0.0	0.00010	0.0
Cadmium	0.86	0.00023	2.6
Chromium	26	0.0	12
Cobalt	0.0	0.0	0.0
Copper	9.5	0.032	23
Lead	9.8	0.00086	0.65
Manganese	840	0.031	996
Mercury	0.0	0.0	0.0
Molybdenum	3.0	0.0	3.6
Nickel	25	0.013	3.4
Selenium	1.1	0.0017	1.3
Silver	0.0	0.0	0.0
Thallium	0.26	0.0	0.31
Tin	52	0.0	62
Vanadium	0.0	0.0	--
Zinc	37	0.010	122
Dioxins/Furans			
Total Avian Dioxin TEQ	0.0000011	0.0000000000037	0.0000031
Total Mammalian Dioxin TEQ	0.0000016	0.0000000000055	0.0000045
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0
MCPP	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0012	0.0	0.00057
Benzo(a)anthracene	0.0038	0.0	0.0054
Benzo(a)pyrene	0.0035	0.0	0.0047
Benzo(b)fluoranthene	0.0026	0.0	0.00015
Benzo(g,h,i)perylene	0.0029	0.0	0.00035
Chrysene	0.0050	0.0	0.0036
Dibenz(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0089	0.0	0.031
Fluorene	0.00059	0.0	0.00028
Indeno(1,2,3-c,d)pyrene	0.0030	0.0	0.00060
Naphthalene	0.0	0.000030	0.0
Phenanthrene	0.0099	0.0	0.010
Pyrene	0.011	0.0	0.040
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0057	0.0	0.071
Sum of PCB Congeners	No Data	0.0	No Data
Total Avian PCB TEQ	No Data	0.0	No Data
Total Mammalian PCB TEQ	No Data	0.0	No Data

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	A Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.00092	0.0	0.0064
4,4'-DDE	0.0018	0.0	0.016
4,4'-DDT	0.00027	0.0	0.0014
Chlordane, alpha	0.00036	0.0	0.0078
Endosulfan I	0.0012	0.0	0.0046
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0012	0.0	0.0046
Endrin	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0
Hexachlorobenzene	0.00032	0.0	0.0060
Kepone	No Data	0.0	No Data
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.0	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.000050	--
N-Nitrosopyrrolidine	0.0	0.0	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	0.0	0.0	0.0
Acetonitrile	0.0	0.0	0.0
Benzene	0.0033	0.0	0.0
Carbon disulfide	0.010	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	4.1	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	0.010	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0	0.0	0.0
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Lower C Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.040	0.0
Arsenic	0.0	0.018	0.0
Barium	110	0.54	130
Beryllium	0.0	0.0043	0.0
Cadmium	1.7	0.0049	5.2
Chromium	30	0.24	14
Cobalt	0.0	0.013	0.0
Copper	15	0.11	26
Lead	0.0	0.033	0.0
Manganese	410	0.71	486
Mercury	0.0	0.00011	0.0
Molybdenum	4.4	0.027	5.2
Nickel	35	0.23	4.3
Selenium	2.8	0.0057	3.3
Silver	0.0	0.00048	0.0
Thallium	0.0	0.0015	0.0
Tin	53	0.0029	63
Vanadium	0.0	0.20	--
Zinc	53	0.25	128
Dioxins/Furans			
Total Avian Dioxin TEQ	0.000000090	0.000000010	0.00000025
Total Mammalian Dioxin TEQ	0.00000023	0.000000011	0.00000064
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	0.0	0.0
Dichlorprop	0.0	0.0	0.0
MCPP	0.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0013	0.0	0.00062
Benzo(a)anthracene	0.0016	0.000011	0.0023
Benzo(a)pyrene	0.0013	0.0	0.0017
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0012	0.0	0.00014
Chrysene	0.0020	0.0	0.0014
Dibenz(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0021	0.0	0.0072
Fluorene	0.00054	0.0	0.00026
Indeno(1,2,3-c,d)pyrene	0.00074	0.0	0.00015
Naphthalene	0.0	0.0	0.0
Phenanthrene	0.0028	0.0	0.0028
Pyrene	0.0043	0.0	0.016
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	0.0	0.0
Sum of PCB Congeners	No Data	0.0	No Data
Total Avian PCB TEQ	No Data	0.0	No Data
Total Mammalian PCB TEQ	No Data	0.0	No Data

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Lower C Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.00083	0.0	0.0057
4,4'-DDE	0.00066	0.0	0.0060
4,4'-DDT	0.0	0.0	0.0
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.0012	0.0	0.0046
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0
Endrin	0.0	0.0	0.0
Heptachlor	0.00063	0.0	0.0054
Hexachlorobenzene	0.0013	0.0	0.024
Kepone	No Data	0.0	No Data
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.000016	--
Bis(2-ethylhexyl)phthalate	0.0	0.0013	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.00010	--
N-Nitrosopyrrolidine	0.0	0.0	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.0	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.0	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	0.0	1.1	0.0
Acetonitrile	0.0	3.7	0.0
Benzene	0.0	0.0	0.0
Carbon disulfide	0.0	0.00059	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	6.4	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	0.024	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0059	0.0	0.0
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0	0.0	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.94	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Upper C Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.044	0.0
Arsenic	0.0	0.019	0.0
Barium	96	0.64	114
Beryllium	0.0	0.0047	0.0
Cadmium	4.9	0.0061	15
Chromium	41	0.24	19
Cobalt	0.0	0.0	0.0
Copper	24	0.11	30
Lead	0.0	0.034	0.0
Manganese	110	0.65	130
Mercury	0.0	0.00012	0.0
Molybdenum	6.4	0.022	7.6
Nickel	43	0.23	5.0
Selenium	0.0	0.0043	0.0
Silver	0.0	0.00053	0.0
Thallium	0.0	0.0016	0.0
Tin	48	0.0032	57
Vanadium	0.0	0.23	--
Zinc	88	0.28	136
Dioxins/Furans			
Total Avian Dioxin TEQ	No Data	0.000000012	No Data
Total Mammalian Dioxin TEQ	No Data	0.000000013	No Data
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	No Data	0.0	No Data
Dichlorprop	No Data	0.0	No Data
MCPP	No Data	0.0	No Data
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0010	0.0	0.00048
Benzo(a)anthracene	0.00095	0.000010	0.0014
Benzo(a)pyrene	0.00087	0.0	0.0012
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.00083	0.0	0.000099
Chrysene	0.0017	0.0	0.0012
Dibenzo(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0011	0.0	0.0038
Fluorene	0.0	0.0	0.0
Indeno(1,2,3-c,d)pyrene	0.00051	0.0	0.00010
Naphthalene	0.0	0.0	0.0
Phenanthrene	0.00088	0.0	0.00089
Pyrene	0.0016	0.0	0.0058
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	0.0	0.0
Sum of PCB Congeners	No Data	0.0	No Data
Total Avian PCB TEQ	No Data	0.0	No Data
Total Mammalian PCB TEQ	No Data	0.0	No Data

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Upper C Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	0.0025	0.0	0.017
4,4'-DDE	0.0022	0.0	0.020
4,4'-DDT	0.0011	0.0	0.0056
Chlordane, alpha	0.00042	0.0	0.0091
Endosulfan I	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0	0.0	0.0
Endrin	0.0	0.0	0.0
Heptachlor	0.00034	0.0	0.0029
Hexachlorobenzene	0.00052	0.0	0.0098
Kepone	No Data	0.0	No Data
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.0	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.000068	--
N-Nitrosopyrrolidine	0.0	0.0	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	No Data	0.0	No Data
1,2-Dibromoethane (EDB)	0.0	0.0	0.0
1,2-Dichloroethene	No Data	0.0	No Data
Acetone	No Data	0.0	No Data
Acetonitrile	0.0	0.0	0.0
Benzene	No Data	0.0	No Data
Carbon disulfide	No Data	0.0	No Data
Diisopropyl ether	No Data	0.0	No Data
Ethylbenzene	No Data	0.0	No Data
Ethylene glycol	0.0	5.3	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	No Data	0.0	No Data
Methyl ethyl ketone	No Data	0.0	No Data
Methyl isobutyl ketone (MIBK)	No Data	0.0	No Data
Methylcyclopentane	No Data	0.0	No Data
Methylene chloride	No Data	0.0	No Data
Nonanal	0.0	0.0	0.0
Propanal	No Data	0.0	No Data
Tetrahydrofuran	No Data	0.0	No Data
Trichloroethylene	No Data	0.0	No Data

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	B Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Inorganics^a			
Antimony	0.0	No Data	0.0
Arsenic	0.0	No Data	0.0
Barium	93	No Data	110
Beryllium	0.0	No Data	0.0
Cadmium	1.8	No Data	5.5
Chromium	33	No Data	15
Cobalt	0.0	No Data	0.0
Copper	12	No Data	24
Lead	8.5	No Data	0.56
Manganese	300	No Data	356
Mercury	0.0	No Data	0.0
Molybdenum	2.7	No Data	3.2
Nickel	33	No Data	4.1
Selenium	0.0	No Data	0.0
Silver	0.0	No Data	0.0
Thallium	0.36	No Data	0.43
Tin	40	No Data	47
Vanadium	0.0	No Data	--
Zinc	46	No Data	126
Dioxins/Furans			
Total Avian Dioxin TEQ	0.000013	No Data	0.000037
Total Mammalian Dioxin TEQ	0.0000022	No Data	0.0000060
Total Avian TEQ	No Data	0.0	No Data
Total Mammalian TEQ	No Data	0.0	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.0	No Data	0.0
Dichlorprop	No Data	No Data	No Data
MCPP	0.0	No Data	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	No Data	No Data	No Data
Benzo(a)anthracene	0.0	No Data	0.0
Benzo(a)pyrene	0.0	No Data	0.0
Benzo(b)fluoranthene	0.0	No Data	0.0
Benzo(g,h,i)perylene	0.0	No Data	0.0
Chrysene	0.0	No Data	0.0
Dibenzo(a,h)anthracene	0.0	No Data	--
Fluoranthene	0.0	No Data	0.0
Fluorene	0.0	No Data	0.0
Indeno(1,2,3-c,d)pyrene	0.0	No Data	0.0
Naphthalene	0.0	No Data	0.0
Phenanthrene	No Data	No Data	No Data
Pyrene	0.0	No Data	0.0
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.0	No Data	0.0
Sum of PCB Congeners	No Data	No Data	No Data
Total Avian PCB TEQ	No Data	No Data	No Data
Total Mammalian PCB TEQ	No Data	No Data	No Data

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	B Drainage		
	Sediment ^b (mg/kg, dw)	Surface Water (mg/L)	Aquatic Invertebrates (mg/kg, dw)
Pesticides			
4,4'-DDD	No Data	No Data	No Data
4,4'-DDE	0.0	No Data	0.0
4,4'-DDT	0.0	No Data	0.0
Chlordane, alpha	No Data	No Data	No Data
Endosulfan I	No Data	No Data	No Data
Endosulfan II	No Data	No Data	No Data
Endosulfan sulfate	No Data	No Data	No Data
Endrin	No Data	No Data	No Data
Heptachlor	No Data	No Data	No Data
Hexachlorobenzene	0.0	No Data	0.0
Kepone	No Data	No Data	No Data
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	No Data	--
Bis(2-ethylhexyl)phthalate	0.0	No Data	--
N-Nitrosodiethylamine	0.0	No Data	--
N-Nitrosodipropylamine	0.0	No Data	--
N-Nitrosopyrrolidine	0.0	No Data	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.0	No Data	0.0
1,2-Dibromoethane (EDB)	0.0	No Data	0.0
1,2-Dichloroethene	0.0	No Data	0.0
Acetone	0.0	No Data	0.0
Acetonitrile	0.0	No Data	0.0
Benzene	0.0	No Data	0.0
Carbon disulfide	0.0	No Data	0.0
Diisopropyl ether	No Data	No Data	No Data
Ethylbenzene	No Data	No Data	No Data
Ethylene glycol	0.0	No Data	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	No Data	0.0
Methyl ethyl ketone	0.0	No Data	0.0
Methyl isobutyl ketone (MIBK)	No Data	No Data	No Data
Methylcyclopentane	No Data	No Data	No Data
Methylene chloride	0.0	No Data	0.0
Nonanal	0.0	No Data	0.0
Propanal	0.0	No Data	0.0
Tetrahydrofuran	0.0	No Data	0.0
Trichloroethylene	0.0	No Data	0.0

Table U.A5-15
Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

ft bgs = feet below ground surface

HMW = High Molecular Weight

LMW = Low Molecular Weight

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

PCB = Polychlorinated Biphenyl

TEQ = Toxic Equivalent; Total TEQ = Total PCB TEQ + Total Dioxin TEQ

"--" = No Bioaccumulation Factor; EPC not calculated.

mg/kg, dw = milligrams per kilogram, dry weight

mg/L = milligrams per liter

An EPC value of 0.0 indicates:

- a.) CPEC was not detected in the onsite media. Offsite detections resulted in inclusion of the compound if the frequency of detection was >5%.
- b.) Compound was not a CPEC in the matrix.

^a Surface water values for metals are total concentrations.

^bSediment is surface values (0-0.5 ft. bgs)

Table U.A5-16
Stormwater Impoundments Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Stormwater Impoundments		
	Sediment ^b	Surface Water	Aquatic Invertebrates
	(mg/kg, dw)	(mg/L)	(mg/kg, dw)
Inorganics^a			
Antimony	0.0	0.00048	0.0
Arsenic	0.0	0.31	0.0
Barium	750	0.056	890
Beryllium	0.0	0.00051	0.0
Cadmium	21	0.0	64
Chromium	42	0.032	20
Cobalt	0.0	0.0	0.0
Copper	44	0.030	35
Lead	9.8	0.00019	0.64
Manganese	340	0.53	403
Mercury	0.050	0.00012	0.057
Molybdenum	21	0.044	25
Nickel	164	0.44	13
Selenium	9.4	1.6	11
Silver	0.0	0.00027	0.0
Thallium	0.51	0.0	0.60
Tin	69	0.0	82
Vanadium	0.0	0.12	--
Zinc	112	0.069	141
Dioxins/Furans			
Total Avian Dioxin TEQ	3.83E-07	2.91E-12	1.07E-06
Total Mammalian Dioxin TEQ	2.97E-07	8.73E-12	8.32E-07
Total Avian TEQ	No Data	No Data	No Data
Total Mammalian TEQ	No Data	No Data	No Data
Herbicides			
2,4-Dichlorophenoxybutyric acid (2,4-DB)	0.10	0.0	0.0
Dichlorprop	0.020	0.0	0.0
MCPP	1.0	0.0	0.0
Polycyclic Aromatic Hydrocarbons (PAHs)			
2-Methylnaphthalene	0.0	0.0	0.0
Benzo(a)anthracene	0.0	0.0	0.0
Benzo(a)pyrene	0.0	0.000013	0.0
Benzo(b)fluoranthene	0.0	0.0	0.0
Benzo(g,h,i)perylene	0.0	0.0	0.0
Chrysene	0.011	0.0	0.0080
Dibenzo(a,h)anthracene	0.0	0.0	--
Fluoranthene	0.0	0.0	0.0
Fluorene	0.0027	0.0	0.0013
Indeno(1,2,3-c,d)pyrene	0.0	0.0	0.0
Naphthalene	0.017	0.000016	0.0064
Phenanthrene	0.0	0.0	0.0
Pyrene	0.017	0.0	0.061
Total LMW PAH	No Data	No Data	No Data
Total HMW PAH	No Data	No Data	No Data

Table U.A5-16
Stormwater Impoundments Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC	Stormwater Impoundments		
	Sediment ^b	Surface Water	Aquatic Invertebrates
	(mg/kg, dw)	(mg/L)	(mg/kg, dw)
Polychlorinated Biphenyls (PCBs)			
Aroclor 1260	0.099	0.0	1.2
Sum of PCB Congeners	0.16	0.0	2.0
Total Avian PCB TEQ	1.09E-04	0.00E+00	1.32E-03
Total Mammalian PCB TEQ	1.16E-05	0.00E+00	1.41E-04
Pesticides			
4,4'-DDD	0.012	0.0	0.083
4,4'-DDE	0.0	0.0	0.0
4,4'-DDT	0.0081	0.0	0.041
Chlordane, alpha	0.0	0.0	0.0
Endosulfan I	0.0	0.0	0.0
Endosulfan II	0.0	0.0	0.0
Endosulfan sulfate	0.0089	0.0	0.034
Endrin	0.0	0.0	0.0
Heptachlor	0.0	0.0	0.0
Hexachlorobenzene	0.00095	0.0	0.018
Kepone	0.0	0.0	0.0
Semi-Volatile Organic Compounds (SVOCs)			
Bis(2-chloroethyl)ether	0.0	0.000020	--
Bis(2-ethylhexyl)phthalate	0.0	0.0	--
N-Nitrosodiethylamine	0.0	0.0	--
N-Nitrosodipropylamine	0.0	0.0	--
N-Nitrosopyrrolidine	0.0	0.00055	--
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethane	0.012	0.0	0.0
1,2-Dibromoethane (EDB)	0.0	0.000012	0.0
1,2-Dichloroethene	0.0	0.0	0.0
Acetone	0.065	No Data	0.0
Acetonitrile	0.0	No Data	0.0
Benzene	0.0	0.0	0.0
Carbon disulfide	0.15	0.0	0.0
Diisopropyl ether	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0
Ethylene glycol	0.0	No Data	0.0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	0.0	0.0	0.0
Methyl ethyl ketone	0.0	0.0	0.0
Methyl isobutyl ketone (MIBK)	0.0	No Data	0.0
Methylcyclopentane	0.0	0.0	0.0
Methylene chloride	0.0029	0.0070	0.0
Nonanal	0.0	0.0	0.0
Propanal	0.0	0.0	0.0
Tetrahydrofuran	0.0	0.0	0.0
Trichloroethylene	0.0	0.0	0.0

Table U.A5-16
Stormwater Impoundments Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

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EPC = Exposure Point Concentration

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